Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

```
1 CGGGCAGCAA AGGAGGATGG CGAGGGGCTG ATACTGAACC CGGGAAGGGT
 51 GGGCTGTGCT GAAGCTAGAG CCGGAGCCGG AGCTGGGGCC AGAACCCGAG
101 CACTGCCATG TCCACGCAGA GACTTCGGAA TGAAGACTAC CACGACTACA
151 GCTCCACGGA CGTGAGCCCT GAGGAGAGCC CGTCGGAAGG CCTCAACAAC
201 CTCTCCTCCC CGGGCTCCTA CCAGCGCTTT GGTCAAAGCA ATAGCACAAC
251 ATGGTTCCAG ACCTTGATCC ACCTGTTAAA AGGCAACATT GGCACAGGAC
301 TCCTGGGACT CCCTCTGGCG GTGAAAAATG CAGGCATCGT GATGGGTCCC 351 ATCAGCCTGC TGATCATAGG CATCGTGGCC GTGCACTGCA TGGGTATCCT
401 GGTGAAATGT GCTCACCACT TCTGCCGCAG GCTGAATAAA TCCTTTGTGG
451 ATTATGGTGA TACTGTGATG TATGGACTAG AATCCAGCCC CTGCTCCTGG 501 CTCCGGAACC ACGCACACTG GGGAAGACGT GTTGTGGACT TCTTCCTGAT
 551 TGTCACCCAG CTGGGATTCT GCTGTGTCTA TTTTGTGTTT CTGGCTGACA
601 ACTITAAACA GGTGATAGAA GCGGCCAATG GGACCACCAA TAACTGCCAC
651 AACAATGAGA CGGTGATTCT GACGCCTACC ATGGACTCGC GACTCTACAT 701 GCTCTCCTTC CTGCCCTTCC TGGTGCTGCT GGTTTTCATC AGGAACCTCC
 751 GAGCCCTGTC CATCTTCTCC CTGTTGGCCA ACATCACTAT GCTGGTCAGC
801 TTGGTCATGA TCTACCAGTT CATTGTTCAG AGGATCCCAG ACCCCAGCCA
851 CCTCCCCTTG GTGGCCCCTT GGAAGACCTA CCCTCTCTC TTTGGCACAG
 901 CGATTTTTC ATTTGAAGGC ATTGGAATGG TTCTGCCCCT GGAAAACAAA
951 ATGAAGGATC CTCGGAAGTT CCCACTCATC CTGTACCTGG GCATGGTCAT 1001 CGTCACCATC CTCTACATCA GCCTGGGGTG TCTGGGGTAC CTGCAATTTG
1051 GAGCTAATAT CCAAGGCAGC ATAACCCTCA ACCTGCCCAA CTGCTGGTTG
1101 TACCAGTCAG TTAAGCTGCT GTACTCCATC GGGATCTTTT TCACCTACGC 1151 ACTCCAGTTC TACGTCCCGG CTGAGATCAT CATCCCCTTC TTTGTGTCCC
1201 GAGCGCCCGA GCACTGTGAG TTAGTGGTGG ACCTGTTTGT GCGCACAGTG
1251 CTGGTCTGCC TGACATGCAT CTTGGCCATC CTCATCCCCC GCCTGGACCT
1301 GGTCATCTCC CTGGTGGGCT CCGTGAGCAG CAGCGCCCTG GCCCTCATCA
1351 TCCCACCGCT CCTGGAGGTC ACCACCTTCT ACTCAGAGGG CATGAGCCCC
1401 CTCACCATCT TTAAGGACGC CCTGATCAGC ATCCTGGGCT TCGTGGGCTT
1451 TGTGGTGGGG ACCTATGAGG CTCTCTATGA GCTGATCCAG CCAAGCAATG
1501 CTCCCATCTT CATCAATTCC ACCTGTGCCT TCATATAGGG ATCTGGGTTC
1551 GTCTCTGCAG CTGCCTACCC CTGCCCCATG TGTCCCCCGT TACCTGTCCT
1601 CAGAGCCTCA GGTATGGTCC AGGCTCTGAG GAAAGTCAGG GTTGCTGTGT
1651 GGGAACCCCT CTGCCTGGCA CCTGGATACC CTGGGCCAGG TAACCTGAGG
1701 GCAGGGGAGA GGTGGGGTGG CAGACACGCA GAAGTGCTAC TAGTGACAGG
1751 GCTGCCATCG CTCACCTGTA CCTATTTACA CCCAGAACTT TCCAGCTCCC 1801 CCTCATCATG CCTCCTCTT CCTACCTGCC TCCCCTCTGC TGGTGCACCT 1851 CGCCCAACTC ATTCTTACTG CACAGTTCAC TTTATTTAAC AATTTTCATG
1901 TCCCCCATCT CGCTCTGTGC CCCTCCCCAC CAGGGCTTCA GCAGGAGCCC
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FEATURES:

5'UTR: 1-107 Start Codon: 108 Stop Codon: 1536 3'UTR: 1539

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

HOMOLOGOUS PROTEINS: Top BLAST Hits: Score CRA | 89000000199482 /altid=gi | 7297404 /def=gb | AAF52663.1 | CRA | 89000000199480 /altid=gi | 7297402 /def=gb | AAF52661.1 | CRA | 8900000199481 /altid=gi | 7297403 /def=gb | AAF52662.1 | CRA | 8900000197173 /altid=gi | 7294781 /def=gb | AAF50116.1 | CRA | 8900000195851 /21+id=gi | 7292314 /def=gb | AAF50116.1 | 4e-89 (AE003... 330 330 4e-89 (AE003... 4e-89 330 (AE003... (AE003... (AE003... 268 1e-70 CRA 89000000195851 /altid=gi | 7294781 /det=gb | AAF50116.1 | (AE003... CRA | 89000000195851 /altid=gi | 7293314 /def=gb | AAF48694.1 | (AE003... CRA | 18000005127815 /altid=gi | 7509795 /def=pir | | T26845 hypotheti... CRA | 89000000194855 /altid=gi | 7292192 /def=gb | AAF47603.1 | (AE003... CRA | 89000000197171 /altid=gi | 7294779 /def=gb | AAF50114.1 | (AE003... CRA | 89000000197172 /altid=gi | 7294780 /def=gb | AAF50115.1 | (AE003... CRA | 18000005102492 /altid=gi | 2429516 /def=gb | AAB71045.1 | (AF025... 1e-69 265 258 2e-67 253 252 5e-66 8e-66 252 8e-66 3e-65 250 **BLAST dbEST hits:** Score Ε 0.0 1400 gi|5422591 /dataset=dbest /taxon=9606 ... 1017 0.0 gi|3648072 /dataset=dbest /taxon=9606 ... gi | 5746200 /dataset=dbest /taxon=9606 ... gi | 10249244 /dataset=dbest /taxon=960... gi | 8612353 /dataset=dbest /taxon=960... 730 0.0 642 0.0 329 1e-87 7e-83 gi|10083945 /dataset=dbest /taxon=960... EXPRESSION INFORMATION FOR MODULATORY USE: library source: From BLAST dbEST hits: gi|5422591 testis ği | 3648072 Testis ği|5746200 Brain meningiomas gi | 10249244 Brain normal gi | 8612353 Head-neck gi | 10083945 Colon <u>From tissue screening panels:</u> Human Whole liver

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

```
1 MSTQRLRNED YHDYSSTDVS PEESPSEGLN NLSSPGSYQR FGQSNSTTWF
 51 QTLIHLLKGN IGTGLLGLPL AVKNAGIVMG PISLLIIGIV AVHCMGILVK
101 CAHHFCRRLN KSFVDYGDTV MYGLESSPCS WLRNHAHWGR RVVDFFLIVT
  151 QLGFCCVYFV FLADNFKQVI EAANGTTNNC HNNETVILTP TMDSRLYMLS
 201 FLPFLVLLVF IRNLRALSIF SLLANITMLV SLVMIYQFIV QRIPDPSHLP
  251 LVAPWKTYPL FFGTAIFSFE GIGMVLPLEN KMKDPRKFPL ILYLGMVIVT
  301 ILYISLGCLG YLQFGANIQG SITLNLPNCW LYQSVKLLYS IGIFFTYALQ
351 FYVPAEIIIP FFVSRAPEHC ELVVDLFVRT VLVCLTCILA ILIPRLDLVI
401 SLVGSVSSSA LALIIPPLLE VTTFYSEGMS PLTIFKDALI SILGFVGFVV
  451 GTYEALYELI QPSNAPIFIN STCAFI (SEQ ID NO:2)
FEATURES:
Functional domains and key regions:
[1] PDOCO0001 PS00001 ASN_GLYCOSYLATION
N-glycosylation site
Number of matches: 7
1 31-34 NLSS
2 45-48 NSTT
             110-113 NKSF
       3
             174-177 NGTT
             183-186 NETV
       5
             225-228 NITM
       6
              470-473 NSTC
 [2] PDOC00005 PS00005 PKC_PHOSPHO_SITE
Protein kinase C phosphorylation site
Number of matches: 2
              334-336 SVK
 [3] PDOC00006 PS00006 CK2_PHOSPHO_SITE
 Casein kinase II phosphorylation site
 Number of matches: 4
                15-18 SSTD
        ĺ
                 20-23 SPEE
        2
                 24-27 SPSE
              112-115 SFVD
 [4] PDOC00007 PS00007 TYR_PHOSPHO_SITE
 Tyrosine kinase phosphorylation site
                  7-14 RNEDYHDY
  [5] PDOC00008 PS00008 MYRISTYL
  N-myristoylation site
  Number of matches: 7
                 42-47 GQSNST
                 59-64 GNIGTG
67-72 GLPLAV
               175-180 GTTNNC
               342-347 GIFFTY
               404-409 GSVSSS
         6
               451-456 GTYEAL
  [6] PDOC00009 PS00009 AMIDATION
  Amidation site
               138-141 WGRR
  Membrane spanning structure and domains:
                             Score Certainty
     Helix Begin
1 52
2 75
                      End
                             0.668
                      72
                                    Putative
```

2

143

95

163

2.032

1.799

Certain

Certain

FIGURE 2A

4	102	213	1.467	Certain
4	193			
5	216	236	1.884	Certain
6	258	278	1.566	Certain
7	289	309	2.126	Certain
8	335	355	1.378	Certain
9	375	395	1.332	Certain
10	398	418	1.748	Certain
11	437	457	1.533	Certain

```
BLAST Alignment to Top Hit:
>CRA|89000000199482 /altid=gi|7297404 /def=gb|AAF52663.1| (AE003621)
CG13384 gene product [alt 3] [Drosophila melanogaster]
/org=Drosophila melanogaster /taxon=7227 /dataset=nraa
                /length=486
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 Score = 330 bits (837), Expect = 2e-89 Identities = 184/425 (43%), Positives = 262/425 (61%), Gaps = 32/425 (7%)
Query: 47 TTWFQTLIHLLKGNIGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILVKCAHHFC 106
              T+ F TL+HLLKGNIGTG+L +P A KNAG+ +G +I+G + HCM +LV C+H C
TSNFDTLVHLLKGNIGTGILAMPDAFKNAGLYVGLFGTMIMGAICTHCMHMLVNCSHELC 137
 Sbjct: 78
Query: 107 RRLNKSFVDYGDTVMYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYFVFLADNF 166
                RR + +D+ + ES P LR ++ RR+V FL +TQ+GFCCVYF+F+A N
Sbjct: 138 RRFQQPSLDFSEVAYCSFESGPLG-LRRYSMLARRIVTTFLFITQIGFCCVYFLFVALNI 196
 Query: 167 KQVIEAANGTTNNCHNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANI 226
 K V++ H + M ++Y+L L ++LL +RNL+ L+ SL+A + Sbjct: 197 KDVMD-------HYYK------MPVQIYLLIMLGPMILLNLVRNLKYLTPVSLVAAL 240
 Query: 227 TMLVSLVMIYQFIVQRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLENKMKDPR 286
 + L + + +++ +PD + VA W T PL+FGTAI++FEGIG+VLPLEN M+ P
Sbjct: 241 LTVAGLAITFSYMLVDLPDVHTVKPVATWATLPLYFGTAIYAFEGIGVVLPLENNMRTPE 300
 Query: 287 KF---PLILYLGMVIVTILYISLGCLGYLQFGANIQGSITLNLP-NCWLYQSVKLLYSIG 342
 F +L GMVIV LY ++G GYL++G +++GSITLNLP L Q V++ ++
Sbjct: 301 DFGGTTGVLNTGMVIVACLYTAVGFFGYLKYGEHVEGSITLNLPQGDTLSQLVRISMAVA 360
 Query: 343 IFFTYALQFYVPAEIIIPFF----VSRAPEHCELVVDLFVRTVLVCLTCILAILIPRLD 397 IF +Y LQFYVP I+ PF +RA + V +R VLV T +LA IP L Sbjct: 361 IFLSYTLQFYVPVNIVEPFVRSHFDTTRAKDLSATV----LRVVLVTFTFLLATCIPNLG 416
 Query: 398 LVISLVGSVSSSALALIIPPLLEVTTFYSEGMSPLT--IFKDALISILGFVGFVVGTYEA 455
                                                                  ++KD LI I G GFV GT+ +
                  +ISLVG+VSSSALALI PP++EV TFY+ G
 Sbjct: 417 SIISLVGAVSSSALAL TAPPIIEVITFYNVGYGRFNWMLWKDVLILIFGLCGFVFGTWAS 476
  Query: 456 LYELI 460
                 L +++
  Sbjct: 477 LAQIL 481 (SEQ ID NO:4)
 >CRA|8900000199481 /altid=gi|7297403 /def=gb|AAF52662.1| (AE003621) CG13384 gene product [alt 2] [Drosophila melanogaster] /org=Drosophila melanogaster /taxon=7227 /dataset=nraa
                  /length=482
                Length = 482
    Score = 330 bits (837), Expect = 2e-89 Identities = 184/425 (43%), Positives = 262/425 (61%), Gaps = 32/425 (7%)
  Query: 47 TTWFQTLIHLLKGNIGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILVKCAHHFC 106
                  T+ F TL+HLLKGNIGTG+L +P A KNAG+ +G +I+G + HCM +LV C+H C
  Sbjct: 74 TSNFDTLVHLLKGNIGTGILAMPDAFKNAGLYVGLFGTMIMGAICTHCMHMLVNCSHELC 133
  Query: 107 RRLNKSFVDYGDTVMYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYFVFLADNF 166
   RR + +D+ + ES P LR ++ RR+V FL +TQ+GFCCVYF+F+A N
Sbjct: 134 RRFQQPSLDFSEVAYCSFESGPLG-LRRYSMLARRIVTTFLFITQIGFCCVYFLFVALNI 192
  Query: 167 KQVIEAANGTTNNCHNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANI 226
K V++ H + M ++Y+L L ++LL +RNL+ L+ SL+A +
Sbjct: 193 KDVMD-------HYYK------MPVQIYLLIMLGPMILLNLVRNLKYLTPVSLVAAL 236
   Query: 227 TMLVSLVMIYQFIVQRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLENKMKDPR 286
   + L + + +++ +PD + VA W T PL+FGTAI++FEGIG+VLPLEN M+ P
Sbjct: 237 LTVAGLAITFSYMLVDLPDVHTVKPVATWATLPLYFGTAIYAFEGIGVVLPLENNMRTPE 296
```

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Query: 287 KF---PLILYLGMVIVTILYISLGCLGYLQFGANIQGSITLNLP-NCWLYQSVKLLYSIG 342
             F +L GMVIV LY ++G GYL++G +++GSITLNLP L Q V++ ++
Sbjct: 297 DFGGTTGVLNTGMVIVACLYTAVGFFGYLKYGEHVEGSITLNLPQGDTLSQLVRISMAVA 356
Query: 343 IFFTYALQFYVPAEIIIPFF----VSRAPEHCELVVDLFVRTVLVCLTCILAILIPRLD 397
            IF +Y LQFYVP I+ PF +RA + V +R VLV T +LA IP L
Sbjct: 357 IFLSYTLQFYVPVNIVEPFVRSHFDTTRAKDLSATV----LRVVLVTFTFLLATCIPNLG 412
Query: 398 LVISLVGSVSSSALALIIPPLLEVTTFYSEGMSPLT--IFKDALISILGFVGFVVGTYEA 455
             +ISLVG+VSSSALALI PP++EV TFY+ G
                                                     ++KD LI I G GFV GT+ +
Sbict: 413 SIISLVGAVSSSALALIAPPIIEVITFYNVGYGRFNWMLWKDVLILIFGLCGFVFGTWAS 472
Query: 456 LYELI 460
Sbjct: 473 LAQIL 477 (SEQ ID NO:5)
>CRA|18000005127815 /altid=gi|7509795 /def=pir||T26845 hypothetical protein Y43F4B.7 - Caenorhabditis elegans
            /org=Caenorhabditis elegans /taxon=6239 /dataset=nraa
             /length=607
           Length = 607
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Query: 40 RFGQSNSTTWFQTLIHLLKGNIGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILV 99 R NS T Q IH++K +GTGLL LPLA K++G+ +G I ++I ++ ++CM +V
Sbjct: 42 RLPTENSLTPEQAFIHMVKAMLGTGLLSLPLAFKHSGLFLGLILTVLICLICLYCMRQVV 101
Query: 100 KCAHHFCRRLNKSFVDYGDTVMYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYF 159
AH C R + +DY + + +E P W++ + +++V+ + ++QLGFCCVYF Sbjct: 102 FAAHFVCNRNGRDLIDYANIMRGAVEMGP-PWIKRNGYFFKQLVNVNMFISQLGFCCVYF 160
Query: 160 VFLADNFKQVIEAANGTTNNCHNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSI 219
            VF+ADN +
                                     NN T I + ++ML L ++ + \bar{I}\bar{R} \bar{L} \bar{L}+
Sbjct: 161 VFMADNLEDFF-----NNNTSI---HLSKAVWMLLLLIPMLSICSIRRLSILAP 206
Query: 220 FSLLANITMLVSLVMIYQFIVQRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLE 279
F++ AN+ +V++ ++ F++ S LP PLFFGT +F+FEG+ +++P+E
Sbjct: 207 FAMAANVVYVVAVAVVLFFFLSDLRPISSLPWFGKATDLPLFFGTVMFAFEGVAVIMPIE 266
Query: 280 NKMKDPRKFPL---ILYLGMVIVTILYISLGCLGYLQFGANIQGSITLNLPNCWLYQSVK 336
N+M+ P F +L ++V ++ G GYL G +++ + TLNLP YQ++K Sbjct: 267 NRMQSPHAFISWNGVLNSSCLVVLAIFSVTGFYGYLSLGNDVKDTATLNLPMTPFYQTIK 326
 Query: 337 LLYSIGIFFTYALQFYVPAEIIIPFFVSRAPEHCELVVDLFVRTVLVCLTCILAILIPRL 396
             L++ I +Y LQFYVP E I + + P + +
                                                          R V LTC +A LIP L
 Sbjct: 327 LMFVACIMISYPLQFYVPMERIEKWITRKIPVDKQTLYIYIARYSGVILTCAIAELIPHL 386
 Query: 397 DLVISLVGSVSSSALALIIPPLLEVTTFYSEG-MSPLTIFKDALISILGFVGFVVGTY 453
                                                                   F+GF GTY
              L ISL+G+ S +++AL+ PP +E+ T Y++ +S K+ ++
 Sbjct: 387 ALFISLIGAFSGASMALLFPPCIELLTSYAKNELSTGLWIKNIVLLTFAFIGFTTGTY 444
                                                                                     (SEO
 ID NO:6)
 >CRA|335001101719045 /dataset=FastAlert /length=476
              /altid=Derwent|WO200071709.21
  Length = 476

Score = 909 bits (2324), Expect = 0.0

Identities = 450/476 (94%), Positives = 459/476 (95%)
  Frame = +3
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              MSTQRLRNEDYHDYSSTDVSPEESPSEGLNNLSSPGSYQRFGQSNSTTWFQTLIHLLKGN
              MSTQRLRNEDYHDYSSTDVSPEESPSEGLNNLSSPGSYQRFGQSNSTTWFQTLIHLLKGN 60
 Sbjct: 1
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Docket No.: CL001062CON Serial No.: TO BE ASSIGNED

Inventors: WEI, Ming-Hui et al.

Query:	288	IGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILVKCAHHFCRRLNKSFVDYGDTV 467 IGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILVKCAHHFCRRLNKSFVDYGDTV
Sbjct:	61	IGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILVKCAHHFCRRLNKSFVDYGDTV 120
Query:	468	MYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTNNC 647
Sbjct:	121	MYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTNNC MYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTNNC 180
Query:		HNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANITMLVSLVMIYQFIV 827
Quei y.	070	HNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANITMLVSLVMIYQFIV
Sbjct:	181	HNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANITMLVSLVMIYQFIV 240
Query:	828	QRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLENKMKDPRKFPLILYLGMVIVT 1007
Sbjct:	241	QRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLENKMKDPRKFPLILYLGMVIVT QRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLENKMKDPRKFPLILYLGMVIVT 300
Ouerv:	1008	ILYISLGCLGYLQFGANIQGSITLNLPNCWLYQSVKLLYSIGIFFTYALQFYVPAEIIIP 1187
4 , .		TI YTSI GCI GYI OFGANIOGSITLNLPNCWLYOSV+LLY GI TY LQFYV A+II+P
Sbjct:	301	ILYISLGCLGYLQFGANIQGSITLNLPNCWLYQSVELLYLGGICLTYPLQFYVSAKIIVP 360
Query:	1188	FFVSRAPEHCELVVDLFVRTVLVCLTCILAILIPRLDLVISLVGSVSSSALALIIPPLLE 1367
Sbjct:	361	VS + C L+VDL + + ++C TCILAILIPRLDLVISLVGSVSSSALALIIPPLLE VIVSWVCKCCTLMVDLGIGSAMLCKTCILAILIPRLDLVISLVGSVSSSALALIIPPLLE 420
-		VTTFYSEGMSPLTIFKDALISILGFVGFVVGTYEALYELIQPSNAPIFINSTCAFI 1535
Que. y .		VTTFYSEGMSPLTIFKDALISILGFVGFVVGTYEALYELIQPSNAPIFINSTCAFI
Sbjct: ID NO:		
10 110.	• •	
		h mandag (Pfan)
		h results (Pfam): scription Score <u>E-value N</u>
Model	<u>ν σ</u>	scription Score E-value N ansmembrane amino acid transporter protein 223.3 3.5e-63 1
PF0149 PF0109	1 PT	ansmembrane amino acid transporter protein 223.3 3.5e-63 1 N/MK heparin-binding protein family 2.0 9.5 1
		domains:
<u>Model</u>		main seg-f seg-t hmm-f hmm-t score E-value
PF0109 PF0149		1/1 192 208 1 17 [. 2.0 9.5 1/1 71 451 1 467 [] 223.3 3.5e-63

1 AAAACCAGAA AGTCAGATAG TCCCTGTCTC ATCTTCAATC TCTTTATTTG
51 TTATTAGTCT GTTCAGGCTT TCCATTTCTT CCTGATTTCA ATCTTGGTAG
51 TTATIAGICI GITCAGGCTI TCCAGTTTC ATCTGGCTTA TCCAGTATGT
101 GTTGTATTTT TCTAGGGATT TCTCCATTTC ATCTGGGTTA TCCAATATGT
151 TGGCAAATAA TTGTTCACAA TAGCCCCATA TGATTCTTTT TATTTCTGAA
201 COTTOTOTO TACTOTOTO ACTIICALLI LITALIIALIAN INGICIICII
251 TITITOTA GACTAGCAAA GGGTACGICA AIIIAAIIII IICOAAAAA
201 TCAACTCTAG TTTTATTGAT TTTGICIGII IIIIIIICIG IIGICIAIII
261 CATTELATETE TETTETECTE TITETITIE I CELLIARCE LIGORICIO
401 TGAGCTCTTC TTTTTCCAGT TTCCTGAGGT ATAATGTTAA ACTATTTAAT
401 TGAGCICTIC TITTICCAGT TICCAGCA TITATGTCTA TAAACTICTC
451 AGGICTOTT CITCITITI AATGTAGGCA TITTATGTCTA TAAACTTCTC
501 TCTTAGAACT ACTITIGCTG CATTCCATAA GCTTTGGTAT GTTATGTCTC
FE1 CATACCCAAT TCTCTCAAAA TATTTIIIAA AIIICCCGII IGAIIICA
COL TITCACCCAC TECTTETTE GAAGEALAGE ALIGUIAIU GIOGUICACA
CET CCTATAATCT CACCACTITG GGAGGGCCGAG GIGGGCAGAI CACCIGAGGI
TOT CACCACTTTC ACACCCCTG ACCAACATGG TGAACCTCGT CICIACIAAA
701 AATACAAAAT TACTCCCCCG TGGTGGCALG IGCCIGIAAN CCCAGCIACI
801 TGGGAGGCTG AGACAGGAGA ATCGCTTGAA TCCAGGAGGC AGAGGTTGCA
851 GTGAGCCAAG ATTGCACCAC TGCACTCCAG ATGGGGCAAT AAGAGCGCAA
851 GTGAGCCAAG ATTGCACCAC TGCACTCTT CTTTATTTC CACATATTTC
901 CTTTGTCTCA AAGAAAAAAA AAAGCGTGTT GTTTAATTTC CACATATTTG
OCT TOWARTETOO AAGATTOOTO CTGTCALIGA LILUIAGULI VALALIALIA
1001 TOOTOTOANN CANTATTANT ATGATILLAR ILLIGIARA ILIAAGGELL
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1 EO1 ACTCAAATCT TCCCATCCAT TTAAAAAIGI IACIIIAAAA AIIIWAAIGI
1 CC1 ATTA A A A CAT A ATCTTCCCC TACCCCACAG LICCALLICG AGIAGGAGG
1001 ACACATCATA CTITCTCTAT CCTTCTGAAA AAIIGGAAGI IIIAAAAAAIA
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1701 GAAAATACAG CCAGTGTAAA AATTAGCAT ATTAGCAT AGATGATGC
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1051 CCCTCTCCCC TGGGCGGTGG GATCACGIGA IGAGGICCGG AAGCGGCIGC
TOOM COCCOCOO ACCOCOTOS CONTROL CONTRO
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2101 CAGTGAGTTC CTCCACTGAC GAGTTCCGGC TGGCGGCGCT CGCCGCCTTG
2101 CAGTGAGTIC CICCACTGAC GAGTTCCGGC TGGCAGATGC TCCAGGTCAG
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2201 CCACATCCCT TCTCCCTCCC GCTAICICCC IGACCICGI GGGGTTGGGA
TOTAL TOTAL COURT CTCTTTCACT GACAGGIGG GGAAACIGGG GIAGAIGGIG
2401 C. T. ACCC A A ACCACCAT CTAGGGGGGGGGGGGGGGGGG
3451 TCCCCCCTTC CACCAAATGT (116(((GG) GG) GG) GG
TO THE ACCORDANCE OF THE CONTROL OF
2501 AGGCTCATAX TGGGTCTTTG GGACAGTTGG AGAAACTGAG CCCTTACTCC 2551 TCTGGTGCAG CTCCCTCCTA GGACAGTTGG AGAAACTGAG CCCTTACTCC
2601 GGGAAGGGGT AAGGGCTTGC CTAAGGTCAT CCAGTGAGTT AATCGGAGAC
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- 7701 TCCTTTTCCC CACACCCCT CCTGCGGAA ALTICACCTG TGAAAAAGGA
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- 3151 CATATTTCT CCTACCTCTG (CGC) ACC) GGCAACC A AUIUACIQU
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- 5561 2772722727 2872726876 116166816 1161866611 011111119
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COEL ANTOCOTONA TTOTOCTAGE AGGTGAGGG LIAGUSINIAC CIAICAIACI
COOL AACATCATAT ATTITITCIA GIGGILLALA LAAALLIACU LALAALUOON
COLI ATTACCTACE AACCTAGITA AAAAIAAAAL GCCICIIGCC IGIAAICCCA
PACAL TOACTTTOAC ACCOTTGAGAC AGGIGGGALL CITGAGGICA AGAGITTOAG
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TOTAL COCCOCACAA ATOTATTIIT TITII(()) ACGIAIGIII CAIIIAACCC
- 7701 AATATATCCC ACATATTATC ATTG(AATAL ALAALUAGIA TAAAQATIAT
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- 04 E4 - C-C
- 0201 - 64-27-27-24Α ΑΛΑΤΤΤΛΛΈΛ ΓΕΤΔΕΔΔΙΙ ΙΙΙΑΙΙΙΙΑ ΑΑΑΑΙΑΘΑΘΙΑΘΑΘΙ
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ONN THE CATETE TO ACCOUNT A GGGAACAGG IIICICCAN ANIMAICINI
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- 0201
0.051
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OFFI CACTCCATCG ACCCGAGGTC CACTTACIAG CAIGIGGGAI GGAIGGAGCC
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T000	1 CAACATCTT	A TATTAACAA	A CATCTCTCT	A AACTCAACC	AAGTATGATG
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10/2	1 IGGAIIIII	1 1111C1111	A TETTEGET	A CTGCAACCT	TGCCTCCCGG
TPRO	1 ATTCAACCC	AGIGGCACA	C TCAGCCTC	C GAGTAGCTG	GATTACAGGT
1000	A A I CAAGCO	A TICTICION	T AATTTTAT	A TITTAGTA	G AGACGGGGTT
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Docket No.: CL001062CON Serial No.: TO BE ASSIGNED

Inventors: WEI, Ming-Hui et al.

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

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27201 TITTTCTCA TCAATGTTAT AACAAAACAG CGTTGAAGGA AGTGACTGTA
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- 50CC4
- 500E1 616-4174 TEETACTAGETAG
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40351 TGGCTGGGAC TGAAGGAATA ACTCAGCAAGC CATGTGTTCG AGGCTTGGAG 40401 AGTGGGTTAG AAGCTCCCTT TTGGGCAAGC CATGTGTTCG AGGCTTGGAG
40451 CCCCATCGCT TIGGIGIGIC ACCCCCAGA CACAGTCCTA AGTGACTAAC
40501 TGTCAGTGAG GTGAGGACA TATCCAG AGTTGGGCGA GACTTCAGAC
40551 ACTGGAGTGT ATAGTICCTT AGAATTICAG CGAATGAACT GAGGCTCAGA 40601 ATCACCCAGT TACCACATTT CACAGGTAAA CGAATGAACT GAGCAGGGAC
40601 ATCACCCAGT TACCACATTT CACAGGACA GCTTGTTATG GAGCAGGGAC 40651 ATAGTAAGCT GATTTGCCCT GCACCACTCA GCTTGTTATG GAGCAGGGAC 40601 ATCACCCAGT TACCACATTT GACCACATTA GAGCAGGGAC 40601 ATCACCCAGT TACCACATTT GACCACATTA GAGCAGGGAC 40601 ATCACCCAGT TACCACATTT GACCACATTA GAGCAGGGAC 40601 ATCACCCAGT TACCACATTA GAGCAGGGAC 40601 ATCACCACATTA GAGCAGGACATTA GAGCAGGGAC 40601 ATCACCACATTA GAGCAGGACATTA GAGCAGACATTA GAGCAGGACATTA GAGCAGGACATTA GAGCAGACATTA GAGCACATTA GAGCAGACATTA GAGCAGACATTA GAGCACATTA GAGCACA
40651 ATAGTAAGCT GATTIGCCCT GCACCACTOG TITTTAGAAC GCTGAGTTCT 40701 TGGTGATAAT ATTGAAGCAT TTATTATTGG TTTTTAGAAC GCTGAGTTCT
40701 TGGTGATAAT ATTGAAGCAT TTATTAGT TTTAGTAGTT GGGGAAATGA 40751 TTACATGAGT GATATCGTTT GACCATCCTG TTTAGTAGTT GGGGAAATGA

Inventors: WEI, Ming-Hui et al.
Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

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40801 GTCTCAAAGA GTTTAGGTAA CTAGCCACTG AGTGGTAGAG CTGAGGTTGG
40801 GTCTCAAAGA GTTTAGGTAGA CCCATTCCTA TACCACCCTC
ANSSI AGCITGGGCA LICCAMICE AGAINST CTCACTCCAG CTTCCACCCC
ANGOL TOCCTGGGGG TOAGTTOTE CONTRACT ATCACATTAG GCAGGGAGAC
400E1 ACAGTABCAC CTGGCACCAT CACTGCAAGG ATGACATAG CAGCAGACCA
40951 ACAGTAACAC CTGGCACCAT CACTGCAAGG ATGACATTAG 40951 ACAGTAACAC CTGGCACCAT CACTGCAAGG ATGACATTAG 41001 CCAGACCCCA GAGAGGGCAA GTGTCTTGGT GTCGGTACCA CAGCAGACCA 41001 CCAGACCCCA GAGAGGCCTAG ATGACCTATG ATGAGAATGC TGTTTTGTCA
41001 CCAGACCCCA GAGAGGGCAA GTGTCTTGGT GTCGGTACCA 41001 CCAGACCCCA GAGAGGGCAA GTGTCTTGGT GTCGGTACCA 41051 GCTCTTTTGT TGAGCGTTAG ATGACCTATG ATGAGAATGC TGTTTTGTCA 41051 GCTCTTTTGT CAATTTTCTC CATATTCAAC CCTCAAGGTT
41051 GCTCTTTTGT TGAGCGTTAG ATGACCTATG ATGAGAATGC CCTCAAGGTT 41101 TCAGCCTACA ATTTTACCTC CAATTTTCTC CATATTCAAC CCTCAAGGTT 41101 TCAGCCTACA ATTTTAGAAGC AGCTAAGGGC TGAAAACATA
A1101 TCAGCCTACA ATTITACCIO CONTRA CONTRA COCCA ACCETA ACCICA TGAAAACATA
41101 TCAGCCTACA ATTITACCTC CAATTITCTC CATATICAGE 41101 TCAGCCTACA ATTITAGAAGC AGCTAAGGGC TGAAAACATA 41151 TGGGGGATGT CACCAACTCT ATTIAGAAGC CTAAACTTTT TGCACACTTC
41151 TGGGGGATGT CACCAACTCT ATTTAGAAGC AGCTAAGGGC TGCACACTTC 41201 GTAGTTTTGA GTTTCAGGGA AATTAAAAGC CTAAACTTTT TGCACACTTC 41201 GTAGTTTTGA GTTTCAGGGA AATTAGATGTTAA TGAGAATTGC CATTATGGTT
41201 GTAGTTTTGA GTTTCAGGGA AATTAAAAGC CTAAACTTGC CATTATGGTT 41251 TCAAAGCCTT GAGATCGGTG AAGATGTTAA TGAGAATTGC CATTATGGTT 41251 TCAAAGCCTT ACAACCAAAG ATGAAGAACT GCCCCAGAGT ATATAACACT
41251 TCAAAGCCTT GAGATCGGTG AAGATGTTAA TGAGAGT ATATAACACT 41301 GATTAATAGA AGAAGGAAGA ATGAAGAACT GCCCCAGAGT ATATAACACT 41301 GATTAATAGA AGAAGGAAGA ACTCGATATC CTTGTACCCG TTTGCTGTCA
41301 GATTAATAGA AGAAGGAAAG ATGAAGAACT GCCCCAGAG TTTGCTGTCA 41351 GTGGCAGAGG TGGATCTGAG ACTCGATATC CTTGTACCCG TTTGCTGTCA 41351 GTGGCAGAGG TGGATCTGAG ACTCGACTTG ACAAAGCAGA AAGAGGTCAG
A1351 GTGGCAGAGG IGGAICIGAG ACTAGACCAGA AAGAGGTCAG
A1A01 GGCTTTGGAT CCCTTGTCCA ATTACACTATGCTG CATCCCTGTG
ALASI COCTGATOGT GTGCTGGGTT CTCCACCATG CACCATGGGG ACCATCCTTC
41451 GGCTGATCGT GTGCTGGGTT CTCCACCATG CACCATGGTG 41451 GGCTGATCGT GTGCTGGGTT CTCCACAGGC AGGATCCTTC 41501 AAAGCTAGCC TGGGTATCTA CCTCTCCCT CCCTCTGCAT TTCCTTGCCC
41501 AAAGCTAGCC TGGGTATCTA CCTCTCATTT CCTCACAGGC TTCCTTGCCC 41501 CACTGATCCG CCAGACTCCC TGTCTCCCCT CCCTCTGCAT TTCCTTGCCC 41551 CACTGATCCG CCAGACTCATG GGCCAGGGGC TTGAGGTCCT GGATCCTGGT
41551 CACTGATCCG CCAGACTCCC TGTCTCCCCT CCCTCTGCAT 41601 ATCAGGTCTG TGAGGTTATG GGCCAGGGGC TTGAGGTCCT GGATCCTGGT 41601 ATCAGGTCTG TCGTTTACAC CCTCTGGGCC TCTCTTTCCA
A1601 ATCAGGICIG IGAGGITATO GOSTALCAS COTOTOGGOO TOTOTTICOA
41651 CCCAGCICIG TIGCTICCIO TOTALCAT ACCTETEMA CAGAGGCAGA
41701 TAGGACTGTA GTAATATTGT GGAGTTACAT ACCTOTGCTG GGTACCACTA 41751 TTCACCTCCA CTAGTGAGTG CTTAGCAGTG CTCTCTGCTG GGTACCACTA 41751 TTCACCTCCA CTAGTGAATGGAA ATGTCCCATG TGTGTGCTGT
41751 TEACCTCCA CTAGTGAGTG CTTAGCAGTG CTCTCTGCTGT
41751 TTCACCTCCA CTAGTGAGTG CTTAGCAGTG CTCTCGCTG 41801 GACATTCTGC AGTAATGGAA ATGAATGGAA ATGTCCCATG TGTGTGCTGT 41801 GACATTCTGC AGCAGTGGT TGTTGAGCCT TTGAAATGTG
41801 GACATTCTGC AGTAATGGAA ATGAATGGAA ATGACCT TTGAAATGTG 41851 CCATTGCAGC AGCCACTAGG CACCAGTGGT TGTTGAGCCT TTGAAATGTG 41851 CCATTGCAGC AGCCACTAGG CACCAGTGGT TCATTTTAAT TCATTTCAAT
41851 CCATTGCAGC AGCCACTAGA CCATTTAATT TCATTTTAAT TCATTTCAAT
41901 GCTAGTGTGA ATGAAGAACA GGATAGTG
A1051 GTAAATAGCC GICCGIGGCI AIGHT COCCCCCCCCTCTCT AGTCCATIIG
12001 TGAGGCAGGA GGCATGAATC CATTCTTICC CIGGTGTATAA ACAAAAGAGG
42001 TGAGGCAGGA GGCATGAATC CATTCTTTCC CTGGTGTGT AGAAAAGAGG 42001 CGTTGTTATA AAGAAGCACC TGAGACTGGG TAATTTATAA AGAAAAGAGG 42001 CGTTGTTATA AAGAAGCACC TGCAGGCTGT ACAGGAAGTG TGATGCCAGC
42051 CGTTGTTATA AAGAAGCACC TGAGACTGGG TAATTATATATATATATATATAGG CTCATGGCTC TGCAGGCTGT ACAGGAAGTG TGATGCCAGC 42101 TTTATTTTGG CTCATGGCCC TCAGGAAGCT TCTAATCATG GCAGAAGGCA
42101 TITATTITGG CTCATGGCTC TGCAGGCTGT ACAGGAAGTG GCAGAAGGCA 42151 ATCTGCTTCT GGTGAGGGCC TCAGGAAGCT TCTAATCATG GCAGAAGGCA 42151 ATCTGCTTCT GGTGAGGGCA GGGAGCAAGG AGAAGGGAGG
42151 ATCTGCTTCT GGTGAGGGCC TCCCAAGACA GGGAGCAAGG AGAAGGGAGG
42201 AAGGGGGAGC AGGCTTATA TOO TOTAL ACCCAGGGC CCAAGTCATT
42251 TACCAGGCIC TITTAAACAA CAGGCCCACCA GGCCCCACCI
42301 CATGAGGGAT TTGCCCCCAC GACTCAAACA CTTCCCACCC CATCCAAACC
42301 CATGAGGGAT TTGCCCCCAC GACTCAAACA CTTCCCACCA 42301 CATGAGGGAT TTGCCCCCAC GACTCAAACA ATTTGGAGGG GATCCAAACC 42351 CTGACATTGG GGATCACATT TCAACATGAA ATTTGGAGGG GATCCAAACC 42351 CTGACATTGG GTTTCCACAT GTCTCTCATC TTACTGCAGG
42351 CTGACATTGG GGATCACATT TCAACATGAA ATTTGGAGGG TTACTGCAGGG 42401 ATATTACCTG GTAAGTCCTT GTTTCCACAT GTCTCTCATC TTACTGCAGG
42401 ATATTACCIG GTAGGETT TGTTTTTATG GCTCCTCAAA AATCAACTT
42451 GAGTGCIAII CICITIAII TOTALAAA ATCTGGTCTC TAAATGCAAI
47501 AGACALLICA GILLAMAGIO TITULA ACTUATUCAT GTAGACALIG
42551 CCAATCCTTC AGCTGCTCAG CCAAAGAAGC AGTGATCGAT 42601 GCTGCCTTGG ACTGAGATGT TCTGGCAGTC TCACCAGTGT GGTGCCTTCC 42601 GCTGCCTTGG ACTGAGATGT TTTCGCTTTA CAGAATGAAC TTAGAAGCAA
13601 CCTGCCTTGG ACTGAGATGT TCTGGCAGTC TCACCAGCAAC TTAGAAGCAA
42601 GCTGCCTTGG ACTGAGATGT TCTGGCAGTC TCACCAGTAC TTAGAAGCAA 42651 TTAGAGTGAC TTGACTGCAT TTTCGCTTTA CAGAATGAAC TTAGAAGCAA 42651 TTAGAGTGAC TCAAAATGTAA CCCTCTCGTA GGAATCAATG AGGTAGTAGA
42651 TTAGAGTGAC TTGACTGCAT TTTCGCTTTA CAGAATGAATG AGGTAGTAGA 42701 ACCTCTCATA TAAAATGTAA CCCTCTCGTA GGAATCAATG AGGTAGTAGA 42701 ACCTCTCATA TAAAATGTAA CAAGGCTGGG AGCATCCAGC TGTAGCCCAG
42701 ACCICICATA TATACTOTAT CAAGGCTGGG AGCATCCAGC TGTAGCCCAG
42751 TAAGCTCIGG AIGICIGIAI GOOGGTAT TECATTCCTA ACAGGTTAGI
42801 CAGTAGGAAA GACAATCTGT GACGCCATCTACTTTT CATGGCCAAA
42801 CAGTAGGAAA GACAATCTGT CAAACTATAT TIGGTAGCCAAA 42851 AACTAACAGG AAGTCATGCA CTGTAGCAGG ATGTACTTTT CATGGCCAAA 42851 AACTAACAGG AAGTCATGA TAACATTAAC AGGTAAGACA TCCCTACTGT 42901 AAGATGAGTA CTAATGATGA CACCTGCATA ACCTCATTG
42001 AAGATGAGTA CTAATGATGA TAACATTAAC AGGTAAGTCA ACCATCATGA
42901 AAGATGAGTA CTAATGATGA TAACATTAAC AGGTCATTTG ACCATCATGA 42951 ACACCAGGCC TITTGTGAGG CACCTGCATA ACCTCATTTG ACCACAGAAA 42951 ACACCAGGCC AGTTAATATC CCCATTTTGC CAACAAGAAA
42951 ACACCAGGCC TTTTGTGAGG CACCTGCATA ACCULATITIGC CAACAAGAAA 43001 CATCTCTATG ATTCAGGAGC AGTTAATATC CCCATTTTGC CAACAAGAAA
43001 CATCTCTATG ATTCAGGAGC AGTTAATATC CCCAATGTCAC TCAGCTAATT 43051 ACTGGGGAAT AGAAAAGGTAC CATACCTTCC CCAATGTCCA GAGCCCACAG ACCACAGACAA CCTAGTTCCA AACACAAGAAA CCTAGTTCCA GAGCCCCACAG
43051 ACTGGGGAAT AGAAGATTC AACACAAGAA CCTAGTTCCA GAGCCCACAG
A3101 AGCAGCAGAG CCAGGATCTG ANGUETT TCCCCACCTG GTGGAAAGAT
A3151 GCCTCAATAA ACCIGIGAAA CACTACGATG GGTGTATICG
43701 CGGTGAGATG GGAAGCGTGG GGTGTC TCCCACTGTT GACAATGGCT
43201 CGGTGAGATG GGAAGCGTGG GGTCAGTGGG CACTAGGATG 43201 CGGTGAGCCTC CTCCTGCTTA CAGCACTGTC TGGCAGTGTT GACAATGGCT 43251 GTGAAGCCTC CTCCTGCTTA CAGCACTGCT GCGGCAGTGC ACCATTGGTC
43251 GTGAAGCCTC CTCCTGCTTA CAGCACTGTC TGGCAGTGT ACCATTGGTC 43301 GGTATGGCAC GGAAGCCGAT GGCACCTCCT GCGCAGTGC ACCATTGGTC
43301 GGTATGGCAC GGAAGCCGAT GGCACCTCCT GCGGAGTT TCAGATGTGA 43351 TTCGTCAGTT CCTCCTTCT ACAGAGATAC GGTCGTCGTG TGGGGCTTCG
43351 TICGICAGII COTTOTTO ACAGAGATAC GGTCGTCGTG TGGGGCTICG
43351 TTCGTCAGTT CCTCCTTCCT GGCTCACCCG TGGCTGAGT 43401 GAGCCAGTGG GTGTCCTGTC ACAGAGATAC GTCGTCGTG TGGGGCTTCG 43451 CCAGGGGTCA GCCTGCAGAT AGAACTGCTT TTTTTCACCT GTATCAAAAT 43451 CCAGGGGTCA ACCCGCTTT ATCACGGTGT CTTTCCAGAA GGCGGGGTTT
43451 CCAGGGGTCA GCCTGCAGAT AGGGGGGTCT CTTTCCAGAA GGCGGGGTTT
43501 GCTCIGIGAA AIGCGGIIII ALLEGAGG TACACATGTT TGTGTTGGAG
A3551 CITITOCIAT TIGGITICIT GTCAGICAGG TAGAGATAC CITCACCICC
43551 CTTTTCCTAT TTGGTTTCTT GTCAGTCAGG TAGAGATGTT 43601 GCTCCCTGAG TGGTAAGAAA ATGAGCAGCT GCTCAGGAAC GTCCACCTGA 43601 GCTCCCTGAG TGGACCTGC CTCCTTGGGT AGAAACCAGA TTGACCTGAA
43801 GCTCCCTCC CTCCTTGGGT AGAAACCAGA ITGACCTAA
43601 GCTCCCTGAG TGGTAAGAAA ATGAGCAGCT GCTAAGAACCAGA TTGACCTGAA 43651 TTTTCTTCTC CCTACCCTCC CTCCTTGGGT AGAAACCAGA TTGACCTGAA 43701 ATGTAATTTG GTTCCTTTTG CACAGAAGA TGGAAGTCAT GTGCTGTAGC 43701 ATGTAATTTG GTTCCTTTTG GGACCGGAGC CAGAAGATCC GGGTTCCGGT
43701 ATGTAAIIIG GILCCIIIIG CACAACATCC GGGTTCCGGI
43751 CGGAAAGCI GAAAGCCIGG GACCTATICC ATGTTTCTGG
43801 CCCAGTICIG CIGACCITICE ACCESSAGE ATCTCTAAGT TTTCTTAGAG
43801 CCCAGTTCTG CTGACCTTGC AGTGGGACGC CAGTTATTCC 43851 GCATCTATTT CACAGAGATT GAACTGGACA ATGTCTAAGT TTTCTTAGAG 43851 GCATCTATTT CACAGAGGTT GACAGATGCTG ACTTCGCTCA ACAGTAGGGA
43851 GCATCTATTT CACAGAGATT GAACTGGACA ATTICCCTCA ACAGTAGGGA 43901 CTCTCAATCC TATAGAGTGG ACAGATGCTG AATTICCCTCA ACAGTAGGGA 43901 CTCTCAATCC TATAGAGTGT TAGGCATCTT AAACAGGCAT GTCCTCTCTC
43901 CTCTCAATCC TATAAGATGG ACAGATGCTG AAACAGGCAT GTCCTCTCC 43951 GACAGACCTT TCCCAGATTC TGGGCATCTT AAACAGGCAT GTCCTCTCTC 43951 GACAGACCTT TCCCAGATTC TCCTCATCCC CGCCTGGACC TGGTCATCTC
43951 GACAGACCIA TOTTOGGCAT COTCATCCCC CGCCTGGACC TGGTCATCIC
AANNI CCTGCAGGCA ICIIGGCCAI CCIOCAGGC CCCCCTCATC ATCCCACCGC
AANSI CCTGGIGGG ICCGIGAGCA GOISSIGACC CCATCACCCC CCCTCACCAI
44051 CCTGGTGGGC TCCGTGAGCA GCAGCGCCCT GGCCCTCATC ACCACCAT 44101 TCCTGGAGGT CACCACCTTC TACTCAGAGG GCATGAGCCC CCCTCACCAT 44101 TCCTGGAGGT CACCACCTTCATCA GCATCCTGGG CTTCGTGGGC TTTGTGGTGG
44101 TCCTGGAGGT CACCACCTTC TACTCAGAGG GCATGAGCCC CCCTGGTGGG 44151 CTTTAAGGAC GCCCTGATCA GCATCCTGGG CTTCGTGGGC TTTGTGGTGG
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Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

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44201 GGACCTATGA GGCTCTCTAT GAGCTGATCC AGCCAAGCAA TGCTCCCATC
44251 TTCATCAATT CCACCTGTGC CTTCATATAG GGATCTGGGT TCGTCTCTGC
44301 AGCTGCCTAC CCCTGCCCCA TGTGTCCCCC GTTACCTGTC CTCAGAGCCT
44351 CAGGTATGGT CCAGGCTCTG AGGAAAGTCA GGGTTGCTGT GTGGGAACCC
44401 CTCTGCCTGG CACCTGGATA CCCTGGGCCA GGTAACCTGA GGGCAGGGGA
44451 GAGGTGGGGT GGCAGACACG CAGAAGTGCT ACTAGTGACA GGGCTGCCAT
44501 CGCTCACCTG TACCTATTTA CACCCAGAAC TITCCAGCTC CCCCTCATCA
44551 TGCCTCCTCC TTCCTACCTG CCTCCCCTCT GCTGGTGCAC CTCGCCCAAC
44601 TCATTCTTAC TGCACAGTTC ACTITATITA ACAATTITCA TGTCCCCCAC
44651 CTCATGTTTT CACCTTTTAC TGGGCCAGGC ATAGATTAAG TAACTGGGAA
44701 CGCCCCCTCT TTATAAAGCT GGGCTTCTTT CTCATCTCTC TCCCAAATGT
44751 TGTATACTCA GTATTCTTCC TATTCGAGTC TCCAGGGGGT GGCTGGACCT 44801 ACCTGGTCAT TTGAAACAGG CCCCCAAGCT GGAGTTTTTA ATCTGGACTC
 44851 TCTGGCTTGC TGTGACCCCT AAGGCAATGC TTCTCTTCCC TGGTATTCCT
44901 TAGTGTGGGT CACAGTACTG TGTTCTTAGT TGCTTTAGCT CTTAAAACAT
44901 ACGAAGTGTT GCCTAAACTG AAAATATTTA TCTTTTATTT AAAATCAGAT
 45001 TTTTGTTTTT AGACTGTCTT AGATCTGGGG CTATTACGAA TCACTTCTTC
 45051 TTCAGTAAAC TTTGACTCAA CTTCTCCTGC TGAAAAGAAG CTCGCTCCAG
45101 ATGTCTGCAT GGGTCCTCGG CACTCTTGGC TGAGGACTCA AAGGTTTTAA
 45151 TCAGGATCGT CTAAAAATGT ACCTCGGTGA GGAGGCACAG ATTTTGCCTC
 45201 CTGTTGACCA GCCTGGTTTC ATACCGAAAA GACATTGAAG GACTGCAGAA
45251 ATGTATGGGT GCACCGGGCC GAGGGAAGGG TGGCTGAGTG AGAGGCGTAT
45301 AAAATGGGGC TGTGTGCATG CAGGCCCATG TTTCAGCCTC AGCCCACGCC
45351 ACCTGAAAGG ATCACCAATG CTCTCTTGCC ATGTGTGCA
  45351 AGGTGAAAGG ATCAGCAATG CTCTGTTGCC ATCGTGCTGG GACGACACCA
45401 GCTCTATTGC CACCGATGAG TAGCTGAGGT CAGTGTGCAC AGAGTTTGAA
45451 ATTAGCTTAC TAGCTGAGGT CAGTGTGCAC AGAGTTTGAA
  45451 ATTAAGTTAA TAGACTTTAC AGCAGCTGGT CTGACACTAC GCGCAGTGCT
  45501 CGGTTGTTTA CAATCAGTGG GGAAAAGGGC AGAACCAGTG CCCGGCCCCA
  45551 CACTGCCTCT GTGGCCTGGA CTTTGAAAGG AACCCACTGA ACACTAATTA
  45601 TGAGCCCTGT CTTTCCCCCA GAATGCCTCC CTGGGTTTCA CAAACAGCCT
45651 TGAGGTTGGC CCTCCTCAAG GTCAGCCTTC AGATTTGGGA GCAAACTTCA
  45701 GAGAAGGCAG AGGAAGATAC ATTGCCTTGC TGTGGGCTGC CTCTTCTTTC
45751 CTCTTGGTGT GCGAAGTATT TCAGAAGGCC ATTGATGAAT TCCCCCTCTT
  45801 TAGCTGTGTA TTTGTGCACG TGTGTGTGTA CGTGCGTGTG TGTGTGTGTT
  45851 CCTGTGTAAG TAACAGACCA GACTCCTTTT CTCTTCTGTC CCGTCACCAG
   45901 GCTCTTGCTT CACTGCAGAT ACAGTTCACT CTGAAAGCTG GTTGAAGGAG
   45951 AGCAGCAAAA ATGTATCAGG GGTTTTGCTT CTGTGTTTCG CCAAAGCTCA
   46001 TAAGGGCTGT GACCCACCCA TATGGCCCCA GTTTTTTCTG TCTCTTCTGT
   46051 TCCAAAGCCA GGAGAGCTGA CTTCCAGGTG AAGGGATGGG AAAAGTGGAC
   46101 TCTCATTGTA GTGACTCCCA ACCTACCTAA TAATTTGTTA ACTTAGGAAT
   46151 ATGCTATCAT TGTTGACTTG TTCTTCCTTA GGAGAAGGAC GATTTTCACC
   46201 CACCCTTTCT GTTCTATGGT GGACTCTTAA CAGGTGCTAT GTGACCAGGA
   46251 ATCTAGCCGG GAGTAGCAGA GGCCCTGTCT TCTGAAGTCT CAGGCTTAGA 46301 AGTTACCAAA GTGGGCTCAG AAACTGTCAT CTCCTGGTTC CAAGTTCGGG
   46351 CTCTGGCAGC CCAGCCGCTA TCTTAGCTGT CTTTCCCAGC GGTGCTAAGA
    46401 GTGGTCTCAG TGAGAAGGTA GATGCCAACT GGAGGGCCAG ACCTGTGTCC 46401 TGCCCATGTC CTCCTTGGTG GACGTTTCTG TTTACTCAGA GCTGCTAGAG
    46501 ACCATCCTGC CCATCCGAGT TCTGAGATTG GGACTGTGAT GTTGGGACCT
    46551 GAGGACTGGA TGGTAGAATA CTGGGGTCCC CCAGCTCTTA GCAGGATGCA
    46601 GGCTATTGCT TCCACACCCC TGGCCGTGAG AACGTGGTAT GTAGGAGAG (SEQ ID NO:3)
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FEATURES:

Start: 13181-13323 Exon: 13324-17943 Intron: 17944-18034 18035-20533 Exon: Intron: 20534-20622 Exon: 20623-21093 21094-21189 21190-23220 Intron: Exon: Intron: 23221-23305 Exon: 23306-23728 23729-23947 Intron: Exon: 23948-29696 Intron: 29697-29795 Exon: 29796-32613 Intron: 32614-32780 Exon:

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

32781-35343 35344-35513 35514-44007 44038 Intron: Exon: Intron: Exon: 44278 Stop:

CHROMOSOME MAP POSITION: Chromosome 5

ALLELIC VARIANTS (SNPs):

ALLELIC V	WITTAILI	(311. 3) .	
DNA Position	Major	<u>Minor</u>	Domain
2064 2119 2121 2123 2125	G	Α	Beyond ORF(5')
2119	Ă	Ğ	
2121	Ĝ	Ť	Revend ORF(5)
2122 2122	Ğ	ċ	Beyond ORF(5') Beyond ORF(5')
2123 2125	T	Ğ	Beyond ORF(5')
2125 2825	Ġ	Ť	Revend ORE(5')
2823	C	τ̈́	Revond ORF(5')
3288	Č	Ġ	Revond ORF(5')
6172	Ā G	Ť	Beyond ORF(5)
6462	G	†	Beyond ORF(5)
7031	C T	1	Beyond ORF(5') Beyond ORF(5')
7671	1	Ť	Beyond ORF(5') Beyond ORF(5')
8466	_	1	Boyond ORE (5'
9097	-	Ţ	Beyond ORF(5', Beyond ORF(5')
9108	-	Ţ	
10170	Α	Ģ	
10966	Α	G	Beyond ORF(5
12987	Α	СT	Beyond ORF(5' Beyond ORF(5'
13111	C C G C G	G	
13120	C	Т	Beyona OKF(3
13822	C	G	Intron
14891	G	T	Intron
15207	č	Т	Intron
16162	Ğ	T	Intron
16364	Ť	-	Intron
16411	Ť	c	Intron
16636	Ť	T T T - C C	Intron
16802	ċ	Ť	Intron
17111	C A	Ġ	Intron
17276	7	Ğ	Intron
17372	Ċ	Ť	Intron
1/3/2	T C T	Ġ	Intron
18317 18342	Ļ	Ť	Intron
10342	C C T	÷	Intron
21828	÷	ċ	Intron
22674	Ť	č	Intron
22683	ļ	Ċ G	Intron
22822	Ċ G	Ä	Intron
230/3	6	-	Intron
23343	Ç		Intron
23073 23343 23396 23511 23522 23582	Ţ	A C G	Intron
532TT	G	_	Intron
23522	č	•	Intron
23582	Ţ	A	Intron
249//	G	Α	Intron
25131 25178	A	-	Intron
25178	G	A	Intron
25351	G	A	
25380	Α	Ģ	Intron
25351 25380 26737	Ģ	A	Intron
26829	G	Ą	Intron
27423	G	Ą	Intron
27423 27735	Ğ	Ą	Intron
29875	c	G	Intron
30356	C G C	T	Intron
31344	C	Т	Intron

FIGURE 30

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

32570 33220	т Т	G C	Intron Intron Intron
33525	Ţ	G	Intron
34589	A	G T	Intron
34832	G		Intron
35188	Α	G	
35614	G	C	Intron
37852	C	Α	Intron
38643	Ğ	Α	Intron
39198	Ğ	Т	Intron
39550	Ť	G	Intron
42281	À	G	Intron
42321	Ğ	Α	Intron
42563	Ğ	C	Intron
42675	Ğ	Α	Intron
42908	Ğ	Α	Intron
43358	=	G	Intron
43371	G	C	Intron
44796	Ğ	Α	Beyond ORF(3')
45820	Ā	G	Beyond ORF(3')

context:

DNA <u>Position</u> 2064

CTTCGACTGGACTCTGCCCCATGCCCAAGATCAATGCCCTGTTCAGTTCCTATTCGCAGT CCCCAGCGCCCAGGAACATAGTCCTTCCAGCAGTGGCAGTAATAGGTCGCCAGGTGGTGC TGTGGAGCAGAGCTCCGGAGCTCAGTGAGAAAAAAGGCGCGCCGCTCAAGGGAGCACGT GACCTCGGCCTCTGGCGTGGGCGGTGGGATCACGTGATGAGGTCCGGAAGCGGCTGCCGG GCAGCAAAGGAGGATGGCGAGGGGCTGATACTGAACCCGGGAAGGGTGGGCTGTGCTGAA [G,A]

CCAGAGCCGGAGCCGGAGCTGGGCCAGAACCCGAGCAGTGAGTTCCTCCACTGACGAGT TCCGGCTGGCGGCGCTCGCCGCCTTGGGCAGGACCCACCTCGCCTTCCTCCCGGCGTGGC AGATGCTCCAGGTCAGGCACTGGATCCGCCCGGGCTGTGGGTCCGCGACTCCTTGGCGTC CCCGGGCCGCAGCTGCGGTACGACGCTGACACCCCTCTGTGAATTGGGCGAAGCGTGGAG ATCCCTTGTCCCTCGCGCTATCTCCCTTGACCTCGTGGGGTTGGGATCTCACCGTCCTGT

GCAGTCCCCAGCGCCCAGGAACATAGTCCTTCCAGCAGTGGCAGTAATAGGTCGCCAGGT 2119 GGTGCTGTGGAGCAGAGCTCCGGAGCTCAGTGAGAAAAAAGGCGCGGCCGCTCAAGGGAG CACGTGACCTCGGCCTCTGGCGTGGGCGGTGGGATCACGTGATGAGGTCCGGAAGCGGCT GCCGGGCAGCAAAGGAGGATGGCGAGGGGCTGATACTGAACCCGGGAAGGGTGGGCTGTG CTGAAGCCAGAGCCGGAGCCGGAGCTGGGGCCAGAACCCGAGCAGTGAGTTCCTCCACTG [A,G]

CGAGTTCCGGCTGGCGGCGCTCGCCGCCTTGGGCAGGACCCACCTCGCCTTCCTCCCGGC GTGGCAGATGCTCCAGGTCAGGCACTGGATCCGCCCGGGCTGTGGGTCCGCGACTCCTTG GCGTCCCCGGGCCGCAGCTGCGGTACGACGCTGACACCCCTCTGTGAATTGGGCGAAGCG TGGAGATCCCTTGTCCCTCGCGCTATCTCCCTTGACCTCGTGGGGTTGGGATCTCACCGT CCTGTTTGACTGACAGGTGGGGGAAACTGGGGTAGATGGTGAAGATAACCCAAAGGACCA

AGTCCCCAGCGCCCAGGAACATAGTCCTTCCAGCAGTGGCAGTAATAGGTCGCCAGGTGG 2121 TGCTGTGGAGCAGAGCTCCGGAGCTCAGTGAGAAAAAAGGCGCGGCCGCTCAAGGGAGCA CGTGACCTCGGCCTCTGGCGTGGGCGGTGGGATCACGTGATGAGGTCCGGAAGCGGCTGC CGGGCAGCAAAGGAGGATGGCGAGGGGCTGATACTGAACCCGGGAAGGGTGGGCTGTGCT GAAGCCAGAGCCGGAGCCGGAGCTGGGGCCAGAACCCGAGCAGTGAGTTCCTCCACTGAC

ÄGTTCCGGCTGGCGGCGCTCGCCGCCTTGGGCAGGACCCACCTCGCCTTCCTCCCGGCGT [G,T] GGCAGATGCTCCAGGTCAGGCACTGGATCCGCCCGGGCTGTGGGTCCGCGACTCCTTGGC GTCCCCGGGCCGCAGCTGCGGTACGACGCTGACACCCCTCTGTGAATTGGGCGAAGCGTG GAGATCCCTTGTCCCTCGCGCTATCTCCCTTGACCTCGTGGGGTTGGGATCTCACCGTCC TGTTTGACTGACAGGTGGGGGAAACTGGGGTAGATGGTGAAGATAACCCAAAGGACCATC

TCCCCAGCGCCCAGGAACATAGTCCTTCCAGCAGTGGCAGTAATAGGTCGCCAGGTGGTG 2123 CTGTGGAGCAGAGCTCCGGAGCTCAGTGAGAAAAAAGGCGCGGCCGCTCAAGGGAGCACG TGACCTCGGCCTCTGGCGTGGGCGGTGGGATCACGTGATGAGGTCCGGAAGCGGCTGCCG GGCAGCAAAGGAGGATGGCGAGGGGCTGATACTGAACCCGGGAAGGGTGGGCTGTGCTGA AGCCAGAGCCGGAGCCGGAGCTGGGGCCAGAACCCGAGCAGTGAGTTCCTCCACTGACGA [G,C]

TTCCGGCTGGCGGCGCTCGCCGCCTTGGGCAGGACCCACCTCGCCTTCCTCCCGGCGTGG

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

CAGATGCTCCAGGTCAGGCACTGGATCCGCCCGGGCTGTGGGTCCGCGACTCCTTGGCGT CCCCGGGCCGCAGCTGCGGTACGACGCTGACACCCCTCTGTGAATTGGGCGAAGCGTGGA GATCCCTTGTCCCTCGCGCTATCTCCCTTGACCTCGTGGGGTTGGGATCTCACCGTCCTG TTTGACTGACAGGTGGGGGAAACTGGGGTAGATGGTGAAGATAACCCAAAGGACCATCTA

- CCCAGCGCCCAGGAACATAGTCCTTCCAGCAGTGGCAGTAATAGGTCGCCAGGTGGTGCT
 GTGGAGCAGAGCTCCGGAGCTCAGTGAGAAAAAAAGGCGCGGCCGCTCAAGGGAGCACGTG
 ACCTCGGCCTCTGGCGTGGGCGGTGGGATCACGTGATGAGGTCCGGAAGCGGCTGCCGGG
 CAGCAAAGGAGGATGGCGAGGGGCTGATACTGAACCCGGGAAGGGTGGCTGTGCTGAAG
 CCAGAGCCGGAGCCGGAGCTGGGGCCAGAACCCGAGCAGTGAGTTCCTCCACTGACGAGT
 [T,G]
 CCGGCTGGCGGCGCTCGCCGCCTTGGGCAGGACCCACCTCGCCTTCCTCCCGGCGTGGCA
 GATGCTCCAGGTCAGGCACTGGATCCGCCCGGGCTGTGGAATTGGGCGAAGCCTTGGCGTCC
 CCGGGCCGCAGCTGCGGTACGACGCTGACACCCCTCTTGAATTGGGCGAAGCGTGGAGA
 TCCCTTGTCCCTCGCGCTATCTCCCTTGACCTCGTGGGTTGGGATCTCACCGTCCTGTT
 TGACTGACAGGTGGGGGAAACTGGGGTAGATGGTGAAGATAACCCAAAGGACCATCTAGG

- 7031 TCGACAGAGAGAGAAAATACATCTGGGGAATTTGCCGCTGCTCTGAGTTCCAAAGTCCA
 AACCAATGTAATTGTTTCAGAATAACGGATGACACTTTTAGCTTGCAAACAAGGGGCGCC
 AATGCGTGAATTCTGGTAGGAGGTGAGGCCTAGGGTGTACCTATCATAATAAGATCATAT

FIGURE 3Q

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

ATTTTTTGTAGTGCTTTATATAAATCTACCTATAATCAAGATTACCTAGGAAGCTAGTTA AAAATAAAACGCCTCTTGCCTGTAATCCCATCACTTTGAGAGGCTGAGACAGGTGGATCC TTGAGGTCAAGAGTTTGAGACCAGCCTGGCCAACACGGAGAAACTCCATCTCTACTAAAA ACACAAAAATTATCTGGGCATGGTGATGGACGCCTGTAATCCCAGCCACTCGGGAGGCT GAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCACACCA AAAGACAAAAACAACAACAAAAAAAACATAGGCTGGGCATGGTGACTCATGCCTGTAATCC TCAAGAGTTTGACACCAGCCTGGCCAACATGATGAAACCCCCGTCTCTACTAAAAATAGAA AAAAATTAGCCAGTTGTGGTGGCGCATGTCCGTAATCCCAGCTACTCGGGAGGCTAAGAC 7671 AGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGCGAGCCAAGATCGCACCACTGCA TAAAATAAAATAAAATAAAATGCTAAGGTGGAATCAAGTTGGGCCCAGAAATCTATTTTT TTTTCCTTGACGTATGTTTCATTTAACCCAATATATCCCAGATATTATCATTGCAATATA TAATCAGTATAAAGATTATTAATTCATGGGATATTTCACAATTTTTTTGTTACCAGTTCA TTGAAATCTAGTGTGCACATTTCAATTTTACCCAAGTGTATTTCAAGTGTAAGATAGCTA TTTATGGCTAGTGGTTACTGTACTGGATGGTACAACTTCAGAATATGTTACCATCTATTG ATCTTAATCCTCCTTTATTTTGAACAAACCCAGTCACTAAAAAATTGAAATTGGAATCCT AAAAAAATCACTGTAGAATTCCCCTTAAAATTGCCCACTTCTGAAAAATTTAACACCTAC 8466 TTGCACATACATTTTCCATATTGCATCCGTTGCACAAAGTGATTCCACCTGCTCATTTTT AGTGCCCATCTAAAAATGGCATATTTTGTAGATTGAAGAGCAACACTTGTCTATTTATAC AGCTAAAACAATAGTTACATAAGGAAAAAAAAGGAATGTTTTAAGGTTTGTACACTTAAA TTTTTTTTTTTTTTTTTTTGGCCATCAAACTTGCAGACTTTTTTTACTCAGTTGCT CACTCTTCTGAGTCTAAATATCTAATGGAGATTTGGACTTTGTGTTCTGTTTATTGTCCT CAGTAATCTGAAGGACAAGCTTGCCTTCAACTCTCACATAGTACAACCCTCATTTAGACA GTTAACAGGTACTATTAAAATCTCCCATAGGGCGGGAACTGGCAATTGCAGCAATAGACT TGGCTATCAGATTTCATCAAAGGGAGCCTAAGGGCAGTGTGGCCATGGATGCCAGCACTC GCCTTGGTTTCCAAAAAGAGCCATAGAAAGAACTCCGGGGAGTGGCTCTGCCCACTGTCT GATGCTTGAATCCTTACATAACTGCTCTGAGAAAGGGCTTTTGCTTGGATTTTTTCAGGG 9097 ATAAGGGAACAGGCTTTCTCCCAGAGTGATCTGTTCTATTTGGAACAGATCTGTCTTTGA TAGAAAGTTCTTCCTTACACCTAGCAAAAAATCAGCCCTCTTGACTCTCCACGTACTGAT CCTAGCCCTGCCTGACCTTTGAGGCCCCAAATAACAAGTCTAATCCATGTGACAGCTTTT TTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGC GATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACACCATTCTCCTGCCTCAGCCTC CCGAGTAGCTGGGACTACAGGCGCCCGCTACCACGCCCGGCTAATTTTTTGTATTTTTAG TAGAGACGGCTTTTAAAGACAGTTTTTGTACCCCTCAAGTTGCTAGGTGGAACCTTCTCA GTGCTTTCAACCATTCCTCATTTAGTTGGTTTCCTACCCCTCTTGATCCTAGTTCTGACC CAAAAAGAGCCATAGAAAGAACTCCGGGGAGTGGCTCTGCCCACTGTCTGATGCTTGAAT CCTTACATAACTGCTCTGAGAAAGGGCTTTTGCTTGGATTTTTTCAGGGATAAGGGAACA 9108 GGCTTTCTCCCAGAGTGATCTGTTCTATTTGGAACAGATCTGTCTTTGATAGAAAGTTCT TCCTTACACCTAGCAAAAAATCAGCCCTCTTGACTCTCCACGTACTGATCCTAGCCCTGC TTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTC ACTGCAAGCTCCGCCTCCCGGGTTCACACCATTCTCCTGCCTCAGCCTCCCGAGTAGCTG GGACTACAGGCCCCGCTACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGCT TTTAAAGACAGTTTTTGTACCCCTCAAGTTGCTAGGTGGAACCTTCTCAGTGCTTTCAAC CATTCCTCATTTAGTTGGTTTCCTACCCCTCTTGATCCTAGTTCTGACCCCTGGATATAC TATACACAACATAAAGAAGTCTCTCTGCAGTGTTTGAGATAAATTGAACATCTGTACCAA GTAGACAACAGAGAGGTTTCTCGGTTGCTAGGGAAGGATTGGGCAATTAATAAGTCCCTG 10170 TATTCCATCCTTTCACCTTCAGTAATATATAGGTGTCAACCTAAAGGAAGAAGTTGAGAC ACAAAATGCAATTTTTAACAGTTTACTTGAACTGTTTACTTGAACCAAGTGAGGACAGCT GCCCGGGACACACTTCCAAGTTGCCTGGGGGAGTGCGTCCTTCGGCCTTTGTTACCACAG TTCTTAAAGGCAAAAGCGAACAAGGAGAGGACTGATACAAAGTGACTTGACAGGAATTCT CATCAGTTTACAGAAATAGCATGGATTATTGATGGGCTGTACATTGTTGGACTATAGGGT ATGAGTTATGATGTCCAGTGTTAGCATTTTATGACTTAGTGGTGTCAGTTAGTCTAGAAC CCACATAGCAAGTGGCTTCAAGAGGTAATTATTTAACTCAAGGGGGGAGTGACACATGAC TGCTCTCACATTTTAGTGCCTCTCTGGACCCGTAATTTAAAGGGATTCCTCAGATAAAAA

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

AGAATATTAGTGCTAGAGGGAGTTGAGAGATATTTTAGTTTATGCCCCATGCTTTTTGCA 10966 CATTTGAAAATGGTTCACAGGTACTAAGCAAACTGTTGACAGAGGTAGGCTTGGCGCCTG GGCCTCCTGACATACCTGTAAACTGATTTACGAGCTTATACCTGTATAGCAAGAGGTTAC AATGCTGGTATTAAGATACTTCAGAGATTTTTTTTTTCTCCCGGCCCTCTAGTGAGTTTA TTGCCCCAGAGCTGGTTGGCGTCCTTGAATTCCTCTAGCTCATGAGTAAATGAAGCTCTC ATAGATTTTTAGCCAAGTGGCTCTGGCAATGAAGCTAGGCAGGATCGTCTCTGGGATTTC CAGGTCCTTTGCTGGCATTTTGCCAGGTACTTCCCTTGTGAGATAGCTTGGGGGTCCTTC CTACATTGCAATTGTTGAGAGAAAATGCGATCTCCCGTGGATCTCTCTGGTGCCAGACTG GGGTGTTTCCAAAGGAGTACCCTGGCACTGGACCTAAGGAGAGCCTTCGGCGGAGCACCA GTGTATATACGTATATATATATATATATATATATGGGATGATTTATATATATATATATACAG CAGCACGATTGAACTATTGCACAAGGTCCAAGACATTATCTCAGAAAGGAGTAGATAATC 12987 CTGACCTAAGGAATAGGGAATGCGGAATTCCAGGAAGCACTTCTCTTTCATTTTCCCCCA CTCCTCCCAAGCAGTGCCTCACTTCTGCCTTGTCTAGCTGTACTCCGGAAAATTAAGAAA TTTATGAGTGTAGCACCACGTATACCAATGGGAAGGATGGGAGTCAGAAGTCAAGTGAAC CAGCCCGCCTCTGTGTACTTTGCACTTTTCCATTTCCCTTGGTACCAGGCACTTTCATAC TTAATCCATAGTGGAGCTGTCACAGTGAGCAACTCTGACAATGACAGCTTCTACCCCAGA GGCCACCCCAAACATGGAGCTAAAGGCTCCAGCTGCAGGAGGTCTTAATGCTGGCCCTGT CCCCCAGCTGCCATGTCCACGCAGAGACTTCGGAATGAAGACTACCACGACTACAGCTC CACGGACGTGAGCCCTGAGGAGAGCCCGTCGGAAGGCCTCAACAACCTCTCCCCCGGG CCTAAGGAATAGGGAATGCGGAATTCCAGGAAGCACTTCTCTTTCATTTTCCCCCCACTCC TCCCAAGCAGTGCCTCACTTCTGCCTTGTCTAGCTGTACTCCGGAAAATTAAGAAATTTA 13111 TGAGTGTAGCACCACGTATACCAATGGGAAGGATGGGAGTCAGAAGTCAAGTGAACTCAG CCCGCCTCTGTGTACTTTGCACTTTTCCATTTCCCTTGGTACCAGGCACTTTCATACTTA ATCCATAGTGGAGCTGTCACAGTGAGCAACTCTGACAATGACAGCTTCTACCCCAGAGGC ACCCCAAACATGGAGCTAAAGGCTCCAGCTGCAGGAGGTCTTAATGCTGGCCCTGTCCCC CCAGCTGCCATGTCCACGCAGAGACTTCGGAATGAAGACTACCACGACTACAGCTCCACG GACGTGAGCCCTGAGGAGAGCCCGTCGGAAGGCCTCAACAACCTCTCCCCCGGGCTCC TACCAGCGCTTTGGTCAAAGCAATAGCACAACGTGAGTAGCTGTTACCTTCTCCTCCTC GGGTGGGATTCGTGTTCCTAAGCCTCCCTTGGACTTATTTTTCCCCCCAATTTCATCAGT TAGGGAATGCGGAATTCCAGGAAGCACTTCTCTTTCATTTTCCCCCACTCCTCCCAAGCA GTGCCTCACTTCTGCCTTGTCTAGCTGTACTCCGGAAAATTAAGAAATTTATGAGTGTAG 13120 CACCACGTATACCAATGGGAAGGATGGGAGTCAGAAGTCAAGTGAACTCAGCCCGCCTCT GTGTACTTTGCACTTTTCCATTTCCCTTGGTACCAGGCACTTTCATACTTAATCCATAGT GGAGCTGTCACAGTGAGCAACTCTGACAATGACAGCTTCTACCCCAGAGGCCACCCCAAA ATGGAGCTAAAGGCTCCAGCTGCAGGAGGTCTTAATGCTGGCCCTGTCCCCCAGCTGCC ATGTCCACGCAGAGACTTCGGAATGAAGACTACCACGACTACAGCTCCACGGACGTGAGC CCTGAGGAGAGCCCGTCGGAAGGCCTCAACAACCTCTCCCCCGGGCTCCTACCAGCGC TCGTGTTCCTAAGCCTCCCTTGGACTTATTTTTCCCCCCAATTTCATCAGTCCTCCACTT TCTACAGAGGACATTCTTTTAATTTAAAAGTGTGTCATCTGTGCTAGAACCCCAAATAAT 13822 TTCCAAGCATAATCGGAAGCTTCCTTTGCAAAGTCTCCCCCCGAATTCTGCCCCATCACC AAATCAGTATTCATTTGACTGAAGAAGTGGGAAGAAGAAGAATTAACTTCTGCACTTAA AAAATTCAGGGTTGGTAGGAAAGGAAAGATAGACTTTGCATTCTCCAAAGAGGGCTTAAT TCTTGTCTCCAGAAACTGGGACCCCAGACTCATTTGGGCTGAGTTTGGCCCGCTTCAGGT GTGGGGCTCACCACTTGAATTAGAAAATTCAGAGGAAGTTTTGCTACTCCATTGAGTTAG TTTCCCAGCTACTCCTGATTTCAGCAGACCTCTGACTTTTCTCTGTGTCCCAGCATCTCA GCTTTGCAGTCCTGTTTATTCCTCAAGCTTAGCTATTACCTTTTCTGTGTTTTCTTGTG GTTTTTGCTCCTTTTTGATCTCAGATATCAACTTGTCTAAGCAATATTTAGCAGATGAGG 14891 TCTGGATTTTTATGTTTATAGAGACATCTCTGAAGCTCAAAACCTACCAACTAGCAACTT TAGGATAGTAGCTCATAGGTTTTGGACAAAATTATGTCCTTGTTTCTTGGAAATCGAACA AATCAGAAGATACCTTCCTCAGGCTTGTATTGTGACATTTTCCAGGGTATACTTTGTTCC ÄGTTTCCCTTCCTGCCTTGATGTTGTGATACAGTGTAGGTGACCAGGGAAGCCTATCTGT

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

AGTTGATGGCAGGTATTACAGTCCCATCACAGGTGGTACAAGATAAAGTAATTTGCTGGG GCTTAGAGGACTGGTTGAGTACTTCCAGCCTGGGGCATAGGATCCACGCAAGGATTTATA TAGAAAACATGCCAGGTATGATTAAGGTAGAGGTTGATTTGGAGGACCTTCTTAACCTAA ATTAATATTTTAATATGTCGGAAGTGTTAGAGACAAGTTTTTGAGCTGGGTTCCTTTTAT

- 15207 CTTGATGTTGTGATACAGTGTAGGTGACCAGGGAAGCCTATCTGTAGTTGATGGCAGGTA
 TTACAGTCCCATCACAGGTGGTACAAGATAAAGTAATTTGCTGGGGCTTAGAGGACTGGT
 TGAGTACTTCCAGCCTGGGGCATAGGATCCACGCAAGGATTTATATAGAAAACATGCCAG
 GTATGATTAAGGTAGAGGGTTGATTTGGAGGACCTTCTTAACCTAAATTAATATTTTAATA
 TGTCGGAAGTGTTAGAGACAAGTTTTTGAGCTGGGTTCCTTTTATATTTCTGGTTTGCCC
 [C,T]
 ACCCTTTTATCTAGTTTGCGCAAGGAACAAAATACATGGAAGTACTTCTACACCTACTGC
 ACATATGCATGCACACACCTGGCTCTTCTAGCAAGTCAAGGGCTCAGCAAAAACCCCTAG
 TTAGGGGGTGCAAATAGGAACCCCAAACACTTCCATGAGTTTCATGGGTTACTTCCTTTT
 - ACATATGCATGCACACACCTGGCTCTTCTAGCAAGTCAAGGGCTCAGCAAAAACCCCTAG
 TTAGGGGGTGCAAATAGGAACCCCAAACACTTCCATGAGTTTCATGGGTTACTTCCTTTT
 ATTTTTTTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCACTGGCACAATCATG
 GCTCACTGCAACCTCCATCTCCTGGGCTCAAGTGATCCTCCCACCTTAGTTTCCTAAGTA
 GCAGACTGAAACTGGCTCTCTAAAGGTGAGCTGGAGTAGTCATTTGCAAAATGTGGTCTG

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

ACTCAACCAAAGTATGATGTTAGGAATTCTGCATGGGTAAAAGATCCATTGAAAGAGCAA GATCACCAATGGATTTTTTTTTTTTTTTTTTTTTGAGACAGTCTTGCTCTGTCACCCAGG TGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCTGCCTCCCGGATTCAAGCGATT TTTTTATATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGCCAGGATAGTCTCAATCTCT TGACCTCATGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCAC TGCACCTGGCCTGACTTTTTTTTTTTTTAAATACTAAATGTATCAGGGACTTCTGGCCT AGTGGCACAATCTTGGCTCACTGCAACCTCTGCCTCCCGGATTCAAGCGATTCTTCTGCC TCAGCCTCCCGAGTAGCTGGGATTACAGGTGCCTGCCACCACTCCCAGCTAATTTTTATA 17111 TTTTTAGTAGAGACGGGGTTTCGCCATGTTGGCCAGGATAGTCTCAATCTCTTGACCTCA TGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCTG GCCTGACTTTTTTTTTTTTAAATACTAAATGTATCAGGGACTTCTGGCCTCTTATGGT TGGTGTGACTTTTATGCTGTTCACTTTGTATCTTTCTGTTACAGGGTTTGGGGCTTCTGT TATTATTATTATTTTTTAATTTCCTCTGTTCTCTTACCAGTGTTTGTCCGTCATTGT AGTCTCCCTCTATTGCCTAGGCTGGAGTACAGTGGCACGATCTTAACTCACTGCAACCTC TGCCTCCCGGGTTCAAGCAATTCTCCTACCTTAACCTCCTGAGAAGCTGGGATTACAGGC AATCTCTTGACCTCATGATCTGCCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCAT GAGCCACTGCACCTGGCCTGACTTTTTTTTTTTTTAAATACTAAATGTATCAGGGACTT 17276 CTGGCCTCTTATGGTGTGGTGTGACTTTTATGCTGTTCACTTTGTATCTTTCTGTTACAG GGTTTGGGGCTTCTGTTATTATTATTATTTTTTTAATTTCCTCTGTTCTCTTACCAGT GTTTGTCCGTCATTGTTTGGTTTGTCATCCTCTGTTGCAGTTTTGGGATCTGAGTCTTTT TTTTTTTGAGATGGAGTCTCCCTCTATTGCCTAGGCTGGAGTACAGTGGCACGATCTTA ACTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAATTCTCCTACCTTAACCTCCTGAGAA GCTGGGATTACAGGCACATGCCGCTATGCCTGGCTAATTTCTGTATTTTTAGTAGAGACG GGGTTTCGCCTTGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCGCTT CGGCCTCCCAAAGTAGTGGGATTATAGGCATGAGCCACTGTGCCTGGCCAGGTCTGAGCC 17372 TCACTTTGTATCTTTCTGTTACAGGGTTTGGGGCTTCTGTTATTATTATTATTATTTTTTT AATTTCCTCTGTTCTCTTACCAGTGTTTGTCCGTCATTGTTTGGTTTGTCATCCTCTGTT GCAGTTTTGGGATCTGAGTCTTTTTTTTTTTTGAGATGGAGTCTCCCTCTATTGCCTAG GCTGGAGTACAGTGGCACGATCTTAACTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAA TCTCCTACCTTAACCTCCTGAGAAGCTGGGATTACAGGCACATGCCGCTATGCCTGGCTA ATTTCTGTATTTTTAGTAGAGACGGGGTTTCGCCTTGTTGGCCAGGCTGGTCTCGAACTC CTGACCTCAGGTGATCCACCGCTTCGGCCTCCCAAAGTAGTGGGATTATAGGCATGAGCC ACTGTGCCTGGCCAGGTCTGAGCCTTTACAGTGGTCAGTTCAGTGGTTAGAACCAGACCC AAATACACTTGGAAAGGATAGAGTGTCTGAAGAGAGTTGGAGCACCCCTCTGGTCTAATC AAAAATGCAGGCATCGTGGTAAGGGTCTGCATCAGTGGAGAGGAGTGGTGACAAATTTTA GGAGGTAGCTTTTTGTTGTTGTTAAAATGTACTTGCTTTAAAACATTTTAAATAGAGAAG 18317 TTATTGAGAGTGTTCTGTGCGTTAGGCACTGTTCTAAGCTCTTAGAATACATCAGTGAAT TAAATATTCCTGCCCTCATGGAGCTTACTTCATGGTGGAGAGGATGTACTGAGATGGCTC ÄGCAGTTTCTGTCAATAATATGAACTAATGAGTTAGTTACAGATGTCTGCCCATTTTCTA CAGTCTCCCATGCCCTGTTCCTAAATGGCCAACTGCAAGAATCTTATGTCTTCTTTTTGT TAAAGATAACTTACCCGTCTCACCTCACATCCCTTAGCCCAGCTCTTCCCACAGTCACAG TCTGCATCAGTGGAGAGGAGTGGTGACAAATTTTAGGAGGTAGCTTTTTGTTGTTGTTAA AATGTACTTGCTTTAAAACATTTTAAATAGAGAAGCATTTTAAAAAAATCAGTTGACAAA 18342 AAGCGGAATTCAGACATTCACTTAAAGATATTTATTGAGAGTGTTCTGTGCGTTAG GCACTGTTCTAAGCTCTTAGAATACATCAGTGAATTAAATATTCCTGCCCTCATGGAGCT TACTTCATGGTGGAGAGGATGTACTGAGATGGCTCGAGCAGTTTCTGTCAATAATATGAA TAATGAGTTAGTTACAGATGTCTGCCCATTTTCTACAGTCTCCCATGCCCTGTTCCTAAA

CCAAAGCCATTCTGGTTTCTTTCGGAGTTGAAGAGAGACTCAGAGATGTGGGTTGCCCTT AGCTAAGTGCAGTCTTTCTTGATCTGGCATTGCTGTAAAGATAACTTACCCGTCTCACCT CACATCCCTTAGCCCAGCTCTTCCCACAGTCACAGGAGCCTTCTATTCTGCTGATGTGCA

	TALL COLOR AND A TOTAL COLOR COLOR AND A TOTAL C
21828	AACAGTTCTAGGTAAGAAGGGAAGATTTCCTGAAGTAAATTATGTGGTTCCTACCCTCCA GAGGCTTGTAGTCTGTGTAAAGGAAAAAGAAATGTGGGAAGAAGCCGGGGAACAAGATA GAGGCTTGTAGTCTGTGTAAAGGAAAAGAAAA
21020	GAGGCTTGTAGTCTGTGTAAGGAAAAAAAAAAAAAAAAA
	AGAGACCAGTAGTGGGAGACACCCATAAGAAGAGACCCTGTGCCAGATGAGAAAC
	CAGTGCTCAGAGAGAGAGGAACTTTAAAGATTCCCTTGAGATAAACTAGAGCAGGG
	GCACATGAGAGATAGGAGCAAAGAAGGCTT CAGGAGA
	[C T] ———————————————————————————————————
	GTGGAGATGAGTTTGGAGGTGGGAAGTATTTGCAAATTTCTCGTTATGGTACTATC TGTTTGGAGGGAAATTATGTTTGTTTTCTACATTTAAATGTAGGAAATTGATACTATC TGTTTGGAGGGAAATATTATGTTTGTTTTCTACATTTAAAATGTAGGAAACTATGTTCTCTAGA
	TGTTTGGAGGGAAATATATGTTGTTGTTCTCTAGA
	AAGGGCTAAAAAIICIIAAAAAAAAAAAAAAAAAAAAAAA
	AAGGGCTAAAAATTCTTAAAAAAAAAAAAAAAAAGAACCACTTTCATTCA
	TGATGCAGATTATATAGTTCTTTTGGCC
	CATACACATGTTCTTAAAGTTTTTTGCACAGATTGACCATACTATGTATACTGTTTTGGAA
22674	CATACACATGTTCTTAAAGTTTTTTGCACAGATTGACCATACTATGTATACACATAGAGATTTAA ACTTGCTTTTTCCCCCTTAAACGTCTGAGACGTTTTTCTCTATCAGCACATAGAGATTTAA ACTTGCTTTTTCCCCCTTAAACGTCCCATTTAAGAACGGTCTATAATTTAATCACT
	ACTTGCTTTTTCCCCCTTAAACGTCTGAGACGTTTTCCATTTAAGAACGGTCTATAATTTAATCACT CACATTCTTTTTAACTGCTGGTGAAATGTTCCATTTAAGAACGGTCTATAAATTTAATCACT CACATTCTTTTTAACTGCTTATCCAGCTGCTATTGTTCAACCAGCAGTCTGTTT
	CACATTCTTTTAACTGCTGTGAATGTTCCATTAAGAACGGTCACCAGCAGTCTGTTT CTGCTTTTGATGATCCTTTAAGGTTGGTACCAGCTTTGTTGTTGTTCAACCAGCAGTCTGTTT CTGCTTTTGATGATCCTTTAATGTGGGACTTGGTTCTTAATCCAAGTTA
	CTGCTTTTGATGATCCTTTAGGTTGTTACCAGCTGCTATTGTTCACCAAGTTA TTGGTACATCAGTTTCTGTGTCCTTAATGTGGGACTTGGTTGG
	Tr. Cl
	[T,C] AGAGACAGTGAAGGGGACTATTTCCTTGTGTTTTATGTCAAGGGCTCCCTGTAACTAAC
	AGAGACAGTGAAGGGGACTATTTCCTTGTGTTTTATGTCAAGGGTGCTAAGGGGCTGGGCA AAAAAGTGTGAGATGGGATAGGTGGGCAGATGCTATGCAGCATTCCAGACGAGAAGCCAGG
	AAAAAGTGTGAGATGGGATAGGGGCAGATGTGTAGAAGAGGATGCAGAGGAAGCCAGG GTGGTCATGGTGTCTGCCATGTGTCTCACCTCATGCACCTTCTCCCAATGCCCCAGA
	GTGGTCATGGTGTCTGTGCATGTCTCACCTCATGCAGCATTCCAGACCAATGCCCCAGA AAGGGGACGTCGGAAACCACACAGATAGCACCTCCCTCACCTTCTTCCCAATGCCCCAGA
	CCAGTGGCACCTAGCATGGTTTCTTCTCCTGGGTTGGT
	TATACTCT TGGAAACTTGCTT
22683	GTTCTTAAAGTTTTTTGCACAGATTGACCATATCAGCACATAGAGATTTAACACATTCTT
22005	TTCCCTTAAACGICIGAGACGITTICCTCTATAATTTAATCACTCTGCTTTIG
	TITAACTGCTGTGTAATGTTCCATTTAAGACCACCACTCTGTTTTTTGGTACAT
	ATGATCCTTTAGGTTGTTACCAGCTGCTATTGTTCAACCAGCAGTCTGTTATAGAGACAG CAGTTTCTGTGTCCTTAATGTGGGACTTGGTTGGTTCTTATATCCAAGTTATAGAGACAG
	CAGTTTCTGTGTCCTTAATGTGGGACTTGGTTGGT
	[T,C] GAAGGGGACTATTTCCTTGTGTTTTATGTCAAGGGCTCCCTGTAACTAAC
	GAAGGGGACTATTTCCTTGTGTTTTATGTCAAGGGCTCCTGGGCAGTGGTCATG GAGATGGGATAGGTGGGCAGATGTTGAAGAGAGGATGCTAAGGGGCTGGGCAGTGGTCATG GAGATGGGATAGGTGGGCAGATTCCAGACGAGAAGCCAGGAAGGGGACG
	GAGATGGGATAGGTGGGCAGATGTGTAGAGAGGATGCTAAGGGCAGAAGCCAGGAAGGGGACG GTGTCTGTGCATGTGTCTCACCTCATGCAGCTTCTTCCCAATGCCCCAGACCAGTGGCA
	GTGTCTGTGCATGTGTCTCACCTCATGCAGCATTCCAAATGCCCCCAGACCAGTGGCA TCGGAAACCACAGAATAGCACCTCCCTCACTTCTTCCCAATGCCCCAGGACCAGGGGCA TCGGAAACCACACAGGAAAGGGCATCTCGTCCTTGTCACTGCCAGGAAGGGTCT
	TCGGAAACCACAGATAGCACCTCCCTCACCTTCTCCCAATGCCCCAGGAAGGGTCT CCTAGCATGGTTTCTTCTCCTGCCAGGGCATCTCGTCCTTGTCACTGCCAGGAAGGGTCT
	COLLEGERATION OF THE CATCATCATCATCATCATCATCATCATCATCATCATCATC
22822	TCCATTTAAGAACGGTCTATAATTTAATCACTCTGCTTTTGGTGATCATCTGTTTAGGTTGTTA
22022	CCAGCTGCTATTGTTCAACCAGCAGTCTGTTTTCCTT
	GTGGGACTTGGTTGGTTCTTGAGATGGGATAGGTGGGC
	GTGGGACTTGGTTGTTCTTATATCCAAGTTATAGGACAGTGTGAGATGGGATAGGTGGGC GTGTTTTATGTCAAGGGCTCCCTGTAACTAACAAAAAGTGTGAGATGGGATAGGTGGCC GTGTTTTATGTCAAGGGCTCCCTGGGCAGTGGTCATGGTGTCTGTGCATGTCTCT
	AGATGTGTAGAGAGGATGCTAAGGGGCTGGGCTGTGT
	[C.G]
	ACCTCATGCAGCATTCCAGACGAGAAGCCCAGACCAGTGGCACCTAGCATGGTTTCTTCTC CACCTCCCTCACCTTCTTCCCAATGCCCCAGACCAGTGGCACCTGGATGGCTTGGGGAAAAG
	CACCTCCCTCACCTTCTTCCCAATGCCCCAGACCAGTGGCACCTAGCATTGGGGAAAAG CTGCCAGGGCATCTCGTCCTTGTCACTGCCAGGAAGGGTCTGTGATGGCTTGGGGAAAAG
	CTGCCAGGGCATCTCGTCCTTGTCACTGCCAGGAAGGGTCTGTAGATGGTGATGGGTACACTAA CACTGTTAAAAAAACACTTAATGGGCACAATGTACACTGTTTAGCGTGATGGGTACACTAA CACTGTTAAAAAAAACACTTAATGCACTATATCCATTTAACAAAAACAGCACTTGTACTCCCT
	CACTGTTAAAAAAACACTTAATGGGCACAATGTACACTGTTTGGGTACTCCCT ACGCCCAGGCACTACCACTATGCAGTATATCCATTTAACAAAACAGCACTTGTACTCCCT
	ACGCCCAGGCTCATGCA
23073	GAGGATGCTAAGGGGCTGGGCAGTGGTCATGGTGTCTGTGCATGTCTCACCTCATGCA
23073	GCATTCCAGACGAGAGCCAGGAAGGGAACGTACCATTCTTCTTCTTCTCCCAGGGC
	ACCTTCTTCCCAATGCCCCAGACCAGTGGCAGTGCCCTTCCCCGGAAAGCACTGTTAAA
	ACCTTCTTCCCAATGCCCCAGACCAGTGGCACCTAGCATGGTTTCTTTC
	AAAACACTTAATGGGCACAATGTACACTGTTTGGGTC
	[G.A]
	[G,A] CTACCACTATGCAGTATATCCATTTAACAAAACAGCACTTGTACTCCCTAAATCTATTAA CTACCACTATGCAGTATATCCATTTAACAAAACAGCACTTGCATTTGTATTGTAACAGTCT AAAACAAAAACAACAACACCTCCCAGACGTGTTGTGGACTTCTTCCTGATTGTCACCCCA
	AAACAAAACAAAAACACCTCCCCTTCTCCTCCTCCTCCTC
	TTGTATTCCTTCCTTCCCCACCTCCACACCTCACAACTTTAAACAGGTAGGCAC
	GCTGGGATTCTGCTGTCTATTTTGTGTTTCTGGCTGACAACGATGGCAAAAGATGATTGAAG CTGGTTAAAAAAGAAAAAAAAAA
	CIGGITAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	TTGGGTGATGGGTACACTAAACGCCCAGGCACTACCACTATGCAGTATATCCATTTAACA
23343	TTGGGTGATGGGTACACTAAACGCCCAGGCACTACCACTATGCAGTATACACCTTCCCTTC AAACAGCACTTGTACTCCCTAAAATCTATTAAAAAACAAAAAAAA
	AAACAGCACTTGTACTCCCTAAATCTATTAAAAAACAAAAACATCTTCCCCCACCTCCAGAC TGGGAGCATTGCATT
	TGGGAGCATTGCATTTGTATTGTAACAGTCTTTGTATTCTCTCTGCTGTGTCTATTTTGTGT GTGTTGTGGACTTCTTCCTGATTGTCACCCAGCTGGGATTCTGCTGTGTCTATTTTGTGT
	GTGTTGTGGACTTCTTCCTGATTGTCACCCAGCTGGGATTCTGCTGTAAAAAAAA
	[C] CANATCAGCT
	[C,-] CAGAGCGAGAATGGCAAAAGATGATTGAAGTTTTTGTTTAGGATTTTTTCCAAATCAGCT

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

TTTGTCAACAAAAGAGTTAAAGTTTTCATATTTTACATAGATCTACGTCTTCTATTTGAT
TCCCATGGAAAGAGCTCGGGCATAGAGAAACCGCCACATGTCTTGTCGACCCTCCTGTCC
TAGGTACATATGATCAAACCTAGCTCAGACAATTGGGTTGCTGATGATAGTCGTGAAGTT
CTCTAAAGATGGCTCACTGGCCACAGATTCTAAAAGGCCTTGTTCACACACCCTGAGCCTT

- 25131 TGTTAAGATTAAAATAAAAAATTTTTCTAACCTGTATTTAGATAAGTAATTCCTTAT CAACTCCAGTTAATTTTTATTTGTCAAAATTATAAATTCACTTGTTCCTTGCCCTCACTT AACCCCATGCAGGCAAGTCTGTGGGGTGGCATGAGAGAACATCTGTATACAGATGGGTA

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

GAAAATCAGGCTGAGAAAAATGTGCCCTTAAACACTATGGCTGTTTGTGAAAAATGAGAAT AAAAAAAAAATACTTAAATTCAGTTCCCCAAATAATTCATCAGTACATATTCATTAAAAT GCAGACAACACAAATACCTCTTGAATACCATGTCCCCACCCCGAGTCTCCTCTCAGGGAC CCGCTGTATGTGATTGGTCTGTCTCATTCTAGATCCTGTGAATGGATTTACAGCCCATGT AAGTATATTGAGAAATACATTGAAATATTTTGTTTTCATTTTTGAAACATAATTTTTT AAAGTTACATGTTCATCTACCTTGCTTTTTTCCACCTTAAAAATGCCTTAGTGAGCCTTC AGTAATTCCTTATCAACTCCAGTTAATTTTTATTTGTCAAAATTATAAATTCACTTGTTC 25178 ATACAGATGGGTAGAAAATCAGGCTGAGAAAAATGTGCCCTTAAACACTATGGCTGTTTG TGAAAATGAGAATGCATTTTCTAAGGCTTGAGAAAAGGAAAAAAGTAAAAGCGGGTAAAT AAAAGCATAACTTAAAAAAAAAAAATACTTAAATTCAGTTCCCCAAATAATTCATCAGTAC TATTCATTAAAATGCAGACAACACAAATACCTCTTGAATACCATGTCCCCACCCCGAGTC TCCTCTCAGGGACCCGCTGTATGTGATTGGTCTGTCTCATTCTAGATCCTGTGAATGGAT TTACAGCCCATGTAAGTATATTGAGAAATACATTGAAATATATTTTGTTTTCATTTTTGA AACATAATTTTTTAAAGTTACATGTTCATCTACCTTGCTTTTTTCCACCTTAAAAATGCC TTAGTGAGCCTTCCAGGTTAGTATTCCTGGCTCTACCTTGTTGTTAGTTGTCACATT CTGTTTGTGAAAATGAGAATGCATTTTCTAAGGCTTGAGAAAAGGAAAAAAGTAAAAGCG GGTAAATAAAAGCATAACTTAAAAAAAAAAAATACTTAAATTCAGTTCCCCAAATAATTCA 25351 TCAGTACATATTCATTAAAATGCAGACAACACAAATACCTCTTGAATACCATGTCCCCAC GAATGGATTTACAGCCCATGTAAGTATATTGAGAAATACATTGAAATATATTTTGTTTTC TTTTTGAAACATAATTTTTTAAAGTTACATGTTCATCTACCTTGCTTTTTTCCACCTTAA AAATGCCTTAGTGAGCCTTCCAGGTTAGTATTCCTGGCTCTACCTTGTTGTTGTTAGTTG GCTATCAGGCCATGGATAATTTTTAGTATTATTTCAGTATTAAGACAGTGAGATGTTCTT ATACATTCCTTTTTGTGGACTTGTATAAATACTTAAGATATTTGTCTAGATGTGTAATTG AATACTTAAATTCAGTTCCCCAAATAATTCATCAGTACATATTCATTAAAATGCAGACAA 25380 CACAAATACCTCTTGAATACCATGTCCCCACCCCGAGTCTCCTCTCAGGGACCCGCTGTA TGTGATTGGTCTGTCTCATTCTAGATCCTGTGAATGGATTTACAGCCCATGTAAGTATAT TGAGAAATACATTGAAATATATTTTGTTTTCATTTTTGAAACATAATTTTTTAAAGTTAC TGTTCATCTACCTTGCTTTTTTCCACCTTAAAAATGCCTTAGTGAGCCTTCCAGGTTAGT ATTCCTGGCTCTACCTTGTTGTTGTTAGTTGTCACATTGTATCACAGCAAGGAGATTTGC TGCCATTTATTTAACAAGTCCTCACTCAGTGGCTATCAGGCCATGGATAATTTTTAGTAT TATTTCAGTATTAAGACAGTGAGATGTTCTTATACATTCCTTTTTGTGGACTTGTATAAA TACTTAAGATATTTGTCTAGATGTGTAATTGCTGAAGAGTGTGCACTTTTGAATTTTTGT GTATCCATCCAGAGTGATGTCTATGCATAGTACAACCAGGACACAGAGCAATGTCTGCAT AAGGGCAGCCCTGCTGATTTCTTGAGAGCAATTCTGAGTCTTCCTCTGGGCTTAGCCAGA 26737 AGTTGTGCTGTGATCAAATAGTGCCGTCTGCCTGGAGTACAGCATGGGGGAAGAGGTTTG GCTGTGTTTTGATGTAGTCACTGCCCATAGTGTTGTAGTTGCTTCATTTTGATGTGTCAT ACAGCTAAAGATGCTCCCTTTAGGTCATTTTTGTTGCCGCTGCCTCTGCGGCTTGTTACT CTGTTCTGTTTTGGCATTGTGCCCCCACTTACCATGAGGATTCCCCCTACTGTTCAATGTTT CTGAATTTTTTCCCTAATCCTAAGCATGTACATGACTGTTCCTCTTGCCCCTCATGCACG TGCCATTGTAGGTAGCAGACCAAGGTCTTCCACAGAGAGCAGGTTCCTCTGTCTTCAG CATGTGGAGTCTCAAATGGAACAGTTCTGGGCAGAGTGCTTTGCACAGAGGGTGCTCCCA ATAAATGTTTTATCACTGCATATCGTTGCTTCTGAGATGTATTTTTTCATAGTTATAACA TCTGAGTCTTCCTCTGGGCTTAGCCAGAAGTTGTGCTGTGATCAAATAGTGCCGTCTGCC TGGAGTACAGCATGGGGGAAGAGGTTTGGCTGTGTTTTGATGTAGTCACTGCCCATAGTG 26829 TTGTAGTTGCTTCATTTTGATGTGTCATACAGCTAAAGATGCTCCCTTTAGGTCATTTTT CATGAGGATTCCCCTACTGTTCAATGTTTCTGAATTTTTTCCCTAATCCTAAGCATGTAC

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

ATGGTAAGACCTCACTTAATATCATTGATACATTCTTAGAAACTGCAATACATTAAATGT 27423 TGACTGTACGTCATTTCACTTAAAGTCTCAGTTTCCAAGAACTTATTGACGACAAGGGAG GACTTACTGTGTTGTAGAATTGAGGAGATATGTTAATAACGAGCTGATTTTAACATGTAT TGTAGAATAATACACTTCTTCTGCTGGCCTCATTCCCACAATATCCCCACATATGGATTG TGAAATTCCCAGTCTGATACTTGAATCTGATCTGATGTATGAATAAGAGCAGGAGTCATT CACTAACCAACAGATAGCACCTGTTTCCAATAACTTAGGTTACATTTGTGACTCAGGAAT AATTACAGGCCACTCTTGCTCTCAAGTCCCATTGTAAAGGAAAAATACCTATTACCCTGT CTTCATTCCAGGTATTGAAATGCTTCTTACAAAGGGATCTAACAGATTTCTTAGCAGGGG ACACTTCTTCTGCTGGCCTCATTCCCACAATATCCCCACATATGGATTGTGAAATTCCCA GTCTGATACTTGAATCTGATCTGATGTATGAATAAGAGCAGGAGTCATTCACTAACCAAC 27735 AGATAGCACCTGTTTCCAATAACTTAGGTTACATTTGTGACTCAGGAATAATTACAGGCC ACTCTTGCTCTCAAGTCCCATTGTAAAGGAAAAATACCTATTACCCTGTCTTCATTCCAG GTATTGAAATGCTTCTTACAAAGGGATCTAACAGATTTCTTAGCAGGGGCCCAGGGAAAC CATTTATTTAATTTTTTTATTTTTTCAAAAGCAATATTACTGCTTTGAAATCTTTCAAAG TGAAGGCTGTTATAGAGCTTAATAATGGATCTCCTTTTACTTGCCTGAAATTATTCTGAA GCCTGTTAAGAGCATGCCCCGTATTATCCAAATAGCCATACAGTTAAATCAATTTTAAAA CATTGTAAAAGGCTGTTTTAACATCAATTTTTATTTTAATTGAAGCAACATACACATGTG GTTTAGAAAACCAAATTGTAAAAAGACAGCAGCTTTGAATCCCTCCTCCCCACCCTGCCC GTATTAGACTTTCTTCCTTTAGAGAATCTTGGATTTGTTAAAAGGTATGACCTCTCCGAT TCAGAGTTCAAATCTTGAATTTCTGTATAGCCTTTTGCTTTGTTTTTGCTTTCTGTCTTTC 29875 AGAGGATCCCAGACCCCAGCCACCTCCCCTTGGTGGCCCCTTGGAAGACCTACCCTCTCT TCTTTGGCACAGCGATTTTTTCATTTGAAGGCATTGGAATGGTAAGAGCTGCACTGTGAT TTGGGCTAGTGTTCTCTGGTGCCCTTGGTGTTCTCCAGGTCTGTTTCAAGGAATGCTGAG AAACATTGTTAGAAAGTATCTTCTGAGGCCAGGCATGGTGGCTCACGCCTGTAATCTCAG CACTTTGGGAGGCCTAGACTGGTGGATCACTTGAGGTCAGGAGTTCGAAACCAGCCTGGC CAACATGGTGAAACCCCATCTCTACTAAATATACAAAAATCAGCTAGGCATGGTGGCACA CGCCTATAATCCCAGCCACTCGAGAGGCTGAGGCAGGAGAATTGCTTGAACTGGGGAGAC GGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGAC CGCCTATAATCCCAGCCACTCGAGAGGCTGAGGCAGGAGAATTGCTTGAACTGGGGAGAC GGAGGTTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGAC 30356 GTGAATAGTGTTTCGGGGATTCCATTGAGATTTCCCAGCTTCAACTTTTCAAGACAAATT ATATGTAATTTTAAAATGTTTACATTCAAGGCCCCTTCACTGCACACTCATCTCCTATGT TGCAGTAAGGAATAGCATATGGCAATCAGGAAGGCAGGGTCTAGAGTCAGACTGACATGG GGGTAAGTCCTGGCTCTGCCATAGAGTAGCTGTGTGACCTTGAGCAAGGGCTTCATCTCT TTGAGCCTTCATTATTTGTTCCTGAAAAGTGAGCTTAATGATTCGTAGTTATTAGGATTA AATGAGATATGTGCAAAATGCTTTGCACAGACCCTGACACATGGTAAATGTTTAATAGAT TTTTATTTATTAATAATGTTATTTTATTATTGAATCAATAAATGCATGAATAATTTCTC GTGATCACATGTAAATCACTGGTCTCCCTGAGGTTTTATACCTTGCCCTGTGCTCTATCT TAGGGCTTTTCATTGCCCATGAAGAGTGTCTCACTGTAATTCAGAAACACAAATGGTTTC 31344 CTGCTGCTGGGGCAGAGGCCTGAGTGGGCCCATACTTCAGCAGTGAGAAAGAGATCCCAA GAACTCAGGACTGGAAAGAAGAGGCTGAGAAAGTGTGGAAAGATGCCCAGAGACCTTAGG TTCTTGGGCATCCTAAGGGACCTTGTGCTAAATTTTTAGTAGCTTTCCCTAACAGCACAG GCAGAAATTGTTTGCTTGGTTTTATTACCCAAGACTTGTACACAAAGTTATTCTGCAAAC CTAGATTGACTCTTAGTTTTGGATCTAGGGCTTGTTCATTGCATCGGGGTAAAGTGCCAG GCTGCACACTGTATTCACCGTGTGCTCTGTGTTCATGCAGCTGTCACAGGCCAGATATGG GCTCCCTGCCCTCTGGCTCTTTGTATTCTTGGTATGATGGAAACTGACAGATACATTTAG GGGCCTTCTGGTTGCCATGTGGCCTCACTCACAGGGCAAGGGACATTCCCAGCCTGCAGG GATCCTGCAGCAGGAGGACAGAGCACTGGCCTGAGCCAGGAGTCCTGGGCTCGTGTCCTG 32570 TCCACCCTTACTTTTAGGACTTCCTAGCTAGGCAGTGGGCTGCAGAGTCCCTTCTAGTCC CAAGAGCATAACGTCTGATGAAATAACTTTATTTAAAGAGCAGATGTGCTTCTGGAGAAT CTTTTTCTGCACTTTCTCTCCTCTCTCACTACTCTCTCATAGGTTCTGCCCCTGGAAAA

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

- CATTGGTGAATGTATTATAGGGAAATAGTGAGCCATTTTGAAATGCTTCCTGAAAGGGTG
 AATGTCCCAGGGCATGTGCAGAGCAACCATCCTGTTTTGAAGATGAATCATCTCATGGTG
 GAGAGCAGCTGTTAGCAGACACTGAGAAGCTTGTTGAGTGCTCTGCGGATCAGAATCAGC
 TTTCAGTCTAGGCTGGCTGATCTGCCTGGGTGTGCTTTTTATTTTGTTTTTGTATTGTTTT
 ATTTTATTGTATTTTTAAGACAACAGCACTCAGTATTTCCAGGGGCTTTCCCGTTCAAG
 [T,G]
 ACGAACCAGGCTTGACCCTGCTTAGCTTCCAAGATCAGGTGAAATTGAGCACATTCAGAA
 TGGTATGGCTATAGACCTGGATTCGCTTTTATTTTTTATATTCTTTTTCAGTTGATTT

ACGAACCAGGCTTGACCCTGCTTAGCTTCCAAGATCAGGTGAAATTGAGCACATTCAGAA TGGTATGGCTATAGACCTGGATTCGCTTTTTATTTTTTATATTCTTTTTCAGTTGATTT TAACTCGTGAGGCATACCAATTATATATATGGATGCAGTATGTGTGACATTTGGATACAT ATGTACAATGTGTAATTATCAAATCAGGGTAATTGGCATATCCATCTTGTGTCTACTTTT AAATTTCCAAATGTTTCTGCCCTTCCAAGAAGGAAGAGGCAGGTGGTAGCTTGGTGTAAC

CATGAGGGTCTGGTTTAAGGTGGAGCTTTGCTTAGGGACAGAGACCTTTCCTTTTAATGA
CCAGGTCAGATCTGTAAGTTGATCACAGACTGTTTTCCTACTCTGTGCAGTCAAGGCACT
GGAGTAATAAAATAGGGATATCCTGTGGTGAGTTACGTCATTTTTGGAAGCTACACTTGA
AGCAGTAGTAGGAAGAGAGCCATAGTGGTATGGAAAGATGGAATTCTGCTCTGGCCTCTT
GGTCCTGCAGTGTCTTCATCTAATTCCAATTTTTATTTTTTGAAGGCCATGTACACCTGTATG

GTGTGTTTTTTCCTCCTCTTTTTTCTTTTTAAGACAAATTGTAGCACTCTGTAGGTACT GTATTGCTTCATGCTTTTTTCACTTAAAAAAGTGATATAAAACTGTCCCCATGATAGTG ATATGCTATATCATGTGATAGAGTGATATATCATGGGGATAGTTTCATATCACACCATCA CACCTAGAGTTCTGCCTCATACTTTGTTAAAAGCTATACGGGGGCACCACGATTTACCTA TCGAGTTCCCACTGGTTAACATTTAAATTGTTTTCAGTCTTTCCTTCTTAAATAATGCTG

GTACTGTATTGCTTCATGCTTTTTTCACTTAAAAAAAGTGATATAAAACTGTCCCCATGA
TAGTGATATGCTATATCATGTGATAGAGTGATATACATGGGGATAGTTTCATATCACAC
CATCACACCTAGAGTTCTGCCTCATACTTTGTTAAAAGCTATACGGGGGCACCACGATTT
ACCTATCGAGTTCCCACTGGTTAACATTTAAATTGTTTTCAGTCTTTCCTTCTTAAATAA
TGCTGCAGTGAGATATTTTGAATATAAGCTTTTGTGTATGTGTGAGGATATCTGTGAGA
[A, G]

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

AAGGGCACCCAGTCTGCAGGCTTTCATGAGAAAAGACAATGTGTGTTGTAGTGAAGCTGG TĂŤĞŤTTGTGACAGAGAACCTGGCCCATGGCCTCACTTTCAGAGTTGAGGCACCTCCAGA TGGGGAAGTGAATTAATTACATATGTACTGTAAAGAACATGGGAATGAGGACAGTGGTTT ATGTATAGATAGGGTATGAAATGCTGTGGAGGTGGTTATCATTCAGAGTAAAGACATGCG ATTACTATCCCATATTAAATAAGGTAAAGGTCTGAAAGCCATTTAACCCATATCTGTAAT GAGTATAAGTTACTCTGATGAAGGGTACTTATTTGCTTTTTCAAATAGTTGTTTTTCCAC TTTTAACAGCAGCTTCTTTTATTACTATTTCTGGTGTTTTTCCTATCTTTTCCCCAACTTT TCCTCCTCCTCTCACCCTCCAAAGGGAACAGGAGGAATTCAGTGTAGTTTCTTTTTTT 37852 TTTCCCTCTTGGAATTCAACTTTCTCACCACTCTCCCCCATCCTCCAAAGATTACTATGG AGTATTTCATAGGATAGTGCTCATTTTGTTATGATTTCATATCGGACAGTATCTACTTCC GCCCATATTTTTGGAAATGCGGACTTAGCAGGTCACCTTATGTCCAGACCTTGTGTGGAA GAGGCTGGCCCCACCTGTGGAGTCTGGAGTTGTAGGATCAACGGTTTTTTAGATTTCTTT GGAGCAATAACCCATCCATCCTTCAGTGATTCATACTGATTCTCTGTGTCATTTGCCATG TGAAACATTTTACTTCAGTTTGCTATGAAAATTTCAGAAACCTATTTCTGAAGATATAAT TACCTAAAATCGCATCATCCAAGAAGCCTGTTCAGACTGGAATGCAGAGCTGCAAAACAT GTCCTCAACTGTAAGATAGGAAGGGTGTCTGACCTCTAAGGTTTCTCTCAACTCCAAAAT TCTGTGATTCTGTATAGGTGCTTTGCGCTTGATTTTAAGTTTCTACACAAATATTACTCT 38643 AAAAAAAGAAAGTCAATGTAAAAAACATTTGGGAATAAAAGAAGAAATTCCAGTATTCCAC CAATTTAACAAAGTAATTTTTTTTTGCATTGTATCTTCTGTGTCTTAATCCTCATGGGTG TTTTATATCACAAATATTCATATCTTTCACTAATATTTTCATGACCTCGTGGTATTCCAC TGTATTGGTGGATCATATTAACTAAGGTACTCCTTTCATGTTGGACATGGTGGTTGTTTC CCTTGTTTTCGTATTTTTTAAATTTATACCCCCACTAAGTCAAACTTTGTATACTGTCCA AGACTACTGTGAATTTTAAAGGCATATTTATAGACATTTAAAAGTAACATGGTGAAACCC CGTCTCTACTAAAAATACAAAAACAAAATTAGCCTGGTGTGGTGGCAGGTGCCTGTAGTC ATACAAAAACAAAATTAGCCTGGTGTGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGA GGCTGAGGCAGGAGAATGGCATGAACCCAGGAGGCAGAGCTTGCAGTGAGCCAAGATCGC 39198 GCCACTGCACTCCAGCCTAGGTGACAGGGCGAGACTCCATCTCAAAACCAATAAAAATAA AAATAAAAATAAATAAATAAAAGTAACTTGGTAAGTTTTAACAGCTTTGATCATAATAAA ATAGCAGCAAGAGCTCCCAGCACAGGAGCCATAAATGGCCAGCGTATTTCGTAAGTTCGC TTTGTTCTTTTCAGTGCTTTGCTCTTGTTGTGTATAAGTCAGCTCTTTCTGATGCTGGTT CAAAACCACAGGCTCCAGAATCCAGTTCCTTCTGTGAACATGACTGTTGGCCTTATGTTG CTTCAGCAGTTTAAAAGCTCATATTCTTTGTGTCTCTTGACTCGAAGGGAAGATGTTTTG TAATACTGTTGGAGCCCTCTTGACTAATCATGTGGTCGAGCTGAGGTTGTCCTCTGTCCC CCCTTTTGTACACGCCACAGCTGAGCTGCTGCTGAGAAGTGTATAACTGCATTTGTTATA ATGCTGGTTCAAAACCACAGGCTCCAGAATCCAGTTCCTTCTGTGAACATGACTGTTGGC CTTATGTTGCTTCAGCAGTTTAAAAGCTCATATTCTTTGTGTCTCTTGACTCGAAGGGAA 39550 GATGTTTTGTAATACTGTTGGAGCCCTCTTGACTAATCATGTGGTCGAGCTGAGGTTGTC CTCTGTCCCCCCTTTTGTACACGCCACAGCTGAGCTGCTGAGAAGTGTATAACTGCA TGTTGAGTGTCTCTTCATAGGCACTTTAACTCACAGAAGACATTTAGTGCCAGAAGGGGT TTCCATGGTGGCAAAACAGATACCCGTGCTGTTGAACCCTGGGGGCTGCTGATGCTGATT GCACAGCTCCAGGGTAAGTGTGAGGCAGGAGGCATGAATCCATTCTTTCCCTGGTGTGTT AGTCCATTTGCGTTGTTATAAAGAAGCACCTGAGACTGGGTAATTTATAAAGAAAAGAGG 42281 TTTATTTTGGCTCATGGCTCTGCAGGCTGTACAGGAAGTGTGATGCCAGCATCTGCTTCT GGTGAGGGCCTCAGGAAGCTTCTAATCATGGCAGAAGGCAAAGGGGGAGCAGGCTTTATA TGGCAAGACAGGGAGCAAGGAGAAGGGAGGTACCAGGCTCTTTTAAACAACAGCTCTCTC GGGAGGGCCCCAAGTCATTCATGAGGGATTTGCCCCCACGACTCAAACACTTCCCACCAG GCCCCACCTCTGACATTGGGGATCACATTTCAACATGAAATTTGGAGGGGATCCAAACCA TATTACCTGGTAAGTCCTTGTTTCCACATGTCTCTCATCTTACTGCAGGGAGTGCTATTC TCTTTTGTTTGTTTTTATGGCTCCTCAAAAATCAACTTTAGACATTTCAGTTTAAAGTGT TTCTTAAAAATCTGGTCTCTAAATGCAATCCAATCCTTCAGCTGCTCAGCCAAAGAAGCA

42321	CATTCTTTCCCTGGTGTTTAGTCCATTTGCGTTGTTATAAAGAAGCACCTGAGACTGGG
42321	
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	TGATGCCAGCATCTGCTTCTGGTGAGGGCCTCAGGAAGCTTCTAATCATGGCAGAAGGCA
	AAGGGGGAGCAGGCTTTATATGGCAAGACAGGGAGCAAGGAGAAGGGAGGTACCAGGCTC
	TTTTAAACAACAGCTCTCTCAGGGAGGGCCCCAAGTCATTCAT
	[G,A]
	ACTCAAACACTTCCCACCAGGCCCCACCTCTGACATTGGGGGATCACATTTCAACATGAAA
	ACTCAAACACTTCCCACCAGGCCCCACCTCTGACATTGGGGGATCACATTTCAACATGACA
	TTTGGAGGGGATCCAAACCATATTACCTGGTAAGTCCTTGTTTCCACATGTCTCTCATCT
	TACTGCAGGGAGTGCTATTCTCTTTTGTTTGTTTTATGGCTCCTCAAAAATCAACTTTA
	GACATTTCAGTTTAAAGTGTTTCTTAAAAATCTGGTCTCTAAATGCAATCCAATCCTTCA
	GCTGCTCAGCCAAAGAAGCAGTGATCGATGTAGACATTGGCTGCCTTGGACTGAGATGTT
	GC. GC. B. GC. B. GC. B. G.
42563	TTAAACAACAGCTCTCTCAGGGAGGGCCCCAAGTCATTCAT
42303	TANACACAGETE CAGGGAGGGCCCCAAGTCATCATGAGATTTCACATCAACAT
	CTCAAACACTTCCCACCAGGCCCCACCTCTGACATTGGGGGATCACATTTCAACATGAAAT
	TTGGAGGGGATCCAAACCATATTACCTGGTAAGTCCTTGTTTCCACATGTCTCTCATCTT
	ACTGCAGGGAGTGCTATTCTCTTTTGTTTGTTTTATGGCTCCTCAAAAATCAACTTTAG
	ACATTTCAGTTTAAAGTGTTTCTTAAAAATCTGGTCTCTAAATGCAATCCAATCCTTCAG
	[G,C]
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	GGAGICTACACGGGGGCCTTCCTTAGAGTGACTGACTGCATTTCAG
	AATGAACTTAGAAGCAAACCTCTCATATAAAATGTAACCCTCTCGTAGGAATCAATGAGG
	TAGTAGATAAGCTCTGGATGTCTGTATCAAGGCTGGGAGCATCCAGCTGTAGCCCAGCAG
	TAGGAAAGACAATCTGTCAAACTATATTTGATTGCTAACAGGTTAGTAACTAAC
42675	CATGAAATTTGGAGGGGATCCAAACCATATTACCTGGTAAGTCCTTGTTTCCACATGTCT
.20.2	CTCATCTTACTGCAGGGAGTGCTATTCTCTTTTGTTTGTT
	AACTTTAGACATTTCAGTTTAAAGTGTTTCTTAAAAATCTGGTCTCTAAATGCAATCCAA
	AACT TAGACAT TCAGT TAGACAT TCATCATCATCATCATCATCATCATCATCATCATCATCAT
	TCCTTCAGCTGCTCAGCCAAAGAAGCAGTGATCGATGTAGACATTGGCTGCCTTGGACTG
	AGATGTTCTGGCAGTCTCACCAGTGTGGTGCCTTCCTTAGAGTGACTTGACTGCATTTTC
	[G,A]
	CTTTACAGAATGAACTTAGAAGCAAACCTCTCATATAAAATGTAACCCTCTCGTAGGAAT
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	ACAGGAAGTCATGCACTGTAGCAGGATGTACTTTTCATGGCCAAAAAGATGAGTACTAAT
	GATGATAACATTAACAGGTAAGACATCCCTACTGTACACCAGGCCTTTTGTGAGGCACCT
	GATGATALCATTACAGGTACATCCCTACTGTACAGGCCTTTTGTGTGGGTCCT
42000	TGGACTGAGATGTTCTGGCAGTCTCACCAGTGTGGTGCCTTCCTT
42908	TGGACTGAGATGTTCTGGCAGTCTCACCAGTGTGGTGCCTTCCTT
	CATTTTCGCTTTACAGAATGAACTTAGAAGCAAACCTCTCATATAAAATGTAACCCTCTC
	GTAGGAATCAATGAGGTAGTAGATAAGCTCTGGATGTCTGTATCAAGGCTGGGAGCATCC
	AGCTGTAGCCCAGCAGTAGGAAAGACAATCTGTCAAACTATATTTGATTGCTAACAGGTT
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	[G.A]
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	GGCACCTGCATAACCTCATTTGACCATCATGACATCTCTATGATTCAGGAGCAGTTAATA
	TCCCCATTTTGCCAACAAGAAAACTGGGGAATAGAAAGGTACCATACCTTCCCCAATGTC
	ACTCAGCTAATTAGCAGCAGAGCCAGGATCTGAACACAAGAACCTAGTTCCAGAGCCCAC
	AGGCCTCAATAAACCTGTGAAACACTGGCCTTTGCCCACCTGGTGGAAAGATCGGTGAGA
43358	AATAGAAAGGTACCATACCTTCCCCAATGTCACTCAGCTAATTAGCAGCAGAGCCAGGAT
13330	CTGAACACAAGAACCTAGTTCCAGAGCCCACAGGCCTCAATAAACCTGTGAAACACTGGC
	CTTTGCCCACCTGGTGGAAAGATCGGTGAGATGGGAAGCGTGGGGTCAGTGGGCACTAGG
	CTTTGCCACTGGTGGAAAGATCGGTGAAATGGGAAGCTGGGTCACTGCTCACTACAC
	ATGGGTGTATTCGGTGAAGCCTCCTCCTGCTTACAGCACTGTCTGGCAGTGTTGACAATG
	GCTGGTATGGCACGGAAGCCGATGGCACCTCCTGCGGCAGTGCACCATTGGTCTTCGTCA
	[-,G]
	TTCCTCCTCCTGGCTCACCCGTGGCTGAGTTTCAGATGTGAGAGCCAGTGGGTGTCCTG
	TCACAGAGATACGGTCGTCGTGGGGGCTTCGCCAGGGGTCAGCCTGCAGATAGAACTGC
	TTTTTTCACCTGTATCAAAATGCTCTGTGAAATGCGGTTTTATCACGGTGTCTTTCCAG
	AAGGCGGGTTTCTTTTCCTATTTGGTTTCTTGTCAGTCAG
	AGGCTCCCTGAGTGGTAAGAAAATGAGCAGCTGCTCAGGAACGTCCACCTCCTTTTCTTC
	AGGCTCCCTGAGTGGTAAGAAAATGAGCAGCTGCTCAGGAACGTCCACCTCCTTTTCTTC
43374	
43371	CATACCTTCCCCAATGTCACTCAGCTAATTAGCAGCAGAGCCAGGATCTGAACACAAGAA
	CCTAGTTCCAGAGCCCACAGGCCTCAATAAACCTGTGAAACACTGGCCTTTGCCCACCTG
	GTGGAAAGATCGGTGAGATGGGAAGCGTGGGGTCAGTGGGCACTAGGATGGGTGTATTCG
	GTGAAGCCTCCTGCTTACAGCACTGTCTGGCAGTGTTGACAATGGCTGGTATGGCAC
	GGAAGCCGATGGCACCTCCTGCGGCAGTGCACCATTGGTCTTCGTCAGTTCCTCCTTCCT
	[G,C]
	GCTCACCCGTGGCTGAGTTTCAGATGTGAGAGCCAGTGGGTGTCCTGTCACAGAGATACG
	aci checegi daci andi i i chani di anandecha i dadi di eci di chenandi i ned

Title: ISOLATED HUMAN TRANSPORTER PROTEINS...

GTCGTCGTGGGGCTTCGCCAGGGGTCAGCCTGCAGATAGAACTGCTTTTTTTCACCTG
TATCAAAATGCTCTGTGAAATGCGGTTTTATCACGGTGTCTTTCCAGAAGGCGGGGTTTC
TTTTCCTATTTGGTTTCTTGTCAGTCAGGTAGAGATGTTTTGTGTTGGAGGCTCCCTGAGT
GGTAAGAAAATGAGCAGCTGCTCAGGAACGTCCACCTCCTTTTCTTCTCCCCTACCCTCCC

ACCTACCTGGTCATTTGAAACAGGCCCCCAAGCTGGAGTTTTTAATCTGGACTCTCTGGC
TTGCTGTGACCCCTAAGGCAATGCTTCTCTTCCCTGGTATTCCTTAGTGTGGGTCACAGT
ACTGTGTTCTTAGTTGCTTTAGCTCTTAAAACATACGAAGTGTTGCCTAAACTGAAAATA
TTTATCTTTTATTTAAAATCAGATTTTTGTTTTTTAGACTGTCTTAGATCTGGGGCTATTA
CGAATCACTTCTTCTTCAGTAAACTTTGACTCAACTTCTCCTGCTGAAAAGAAGCTCGCT

GGGAAAAGGCCAGAACCAGTGCCCGGCCCCACACTGCCTCTGTGGCCTGGACTTTGAAAG
GAACCCACTGAACACTAATTATGAGCCCTGTCTTTCCCCCAGAATGCCTCCCTGGGTTTC
ACAAACAGCCTTGAGGTTGGCCCTCCTCAAGGTCAGCCTTCAGATTTGGGAGCAAACTTC
AGAGAAGGCAGAGGAAGATACATTGCCTTGCTGTGGGCTGCCTCTTCTTTCCTCTTGGTG
TGCGAAGTATTTCAGAAGGCCATTGATGAATTCCCCCTCTTTAGCTGTATTTTGTGCAC
[A,G]

TGTGTGTGTACGTGCGTGTGTGTGTTCCTGTGTAAGTAACAGACCAGACTCCTTTT CTCTCTGTCCCGTCACCAGGCTCTTGCTTCACTGCAGATACAGTTCACTCTGAAAGCTG GTTGAAGGAGAGCAGCAAAAATGTATCAGGGGTTTTGCTTCTGTGTTTCGCCAAAGCTCA TAAGGGCTGTGACCCACCCATATGGCCCCAGTTTTTTCTGTCTCTTCTGTTCCAAAGCCA GGAGAGCTGACTTCCAGGTGAAGGGATGGGAAAAGTGGACTCTCATTGTAGTGACTCCCA